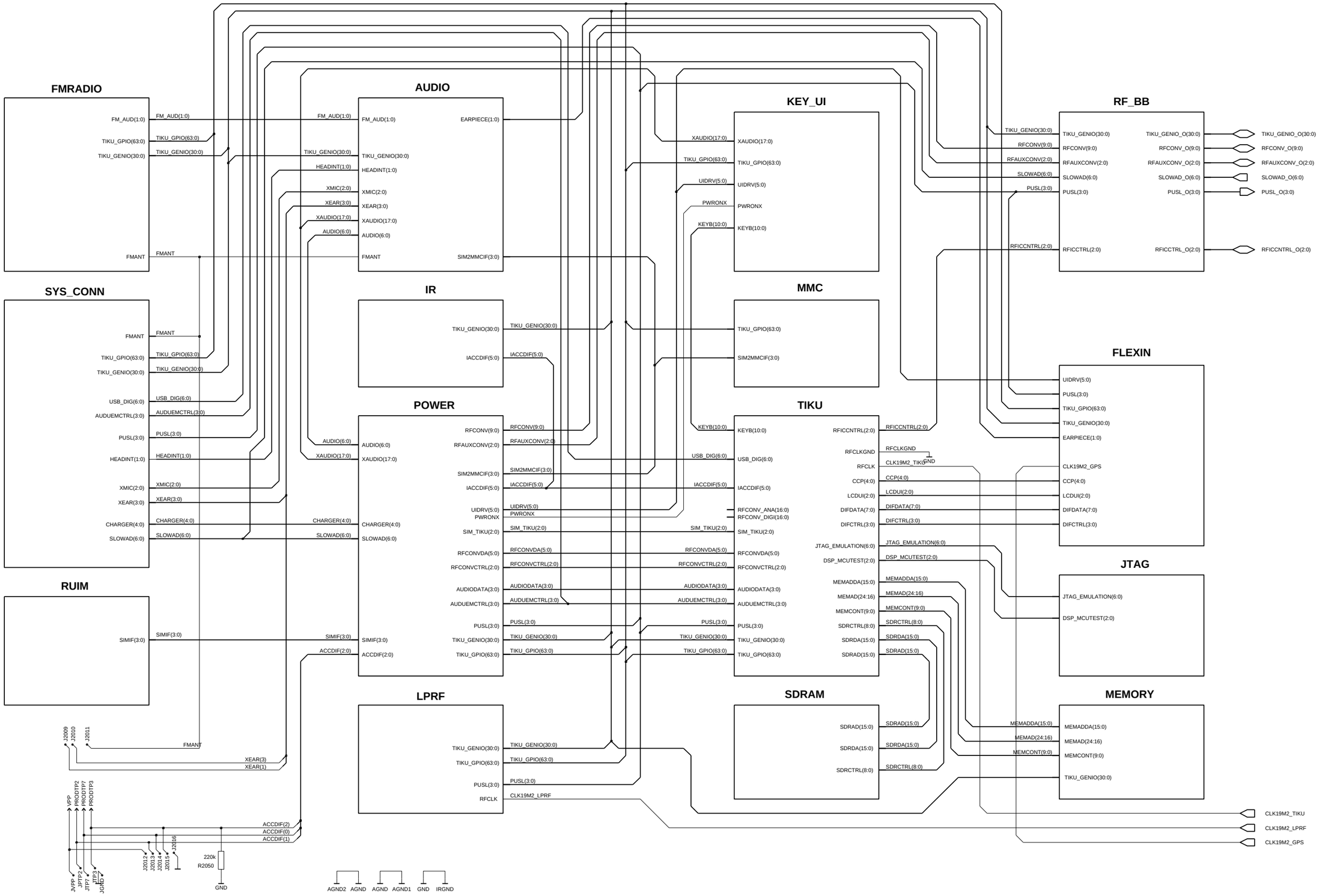
6255/6255i/6256/6256i (RM-19) Schematics - Main PWB

Baseband - Top



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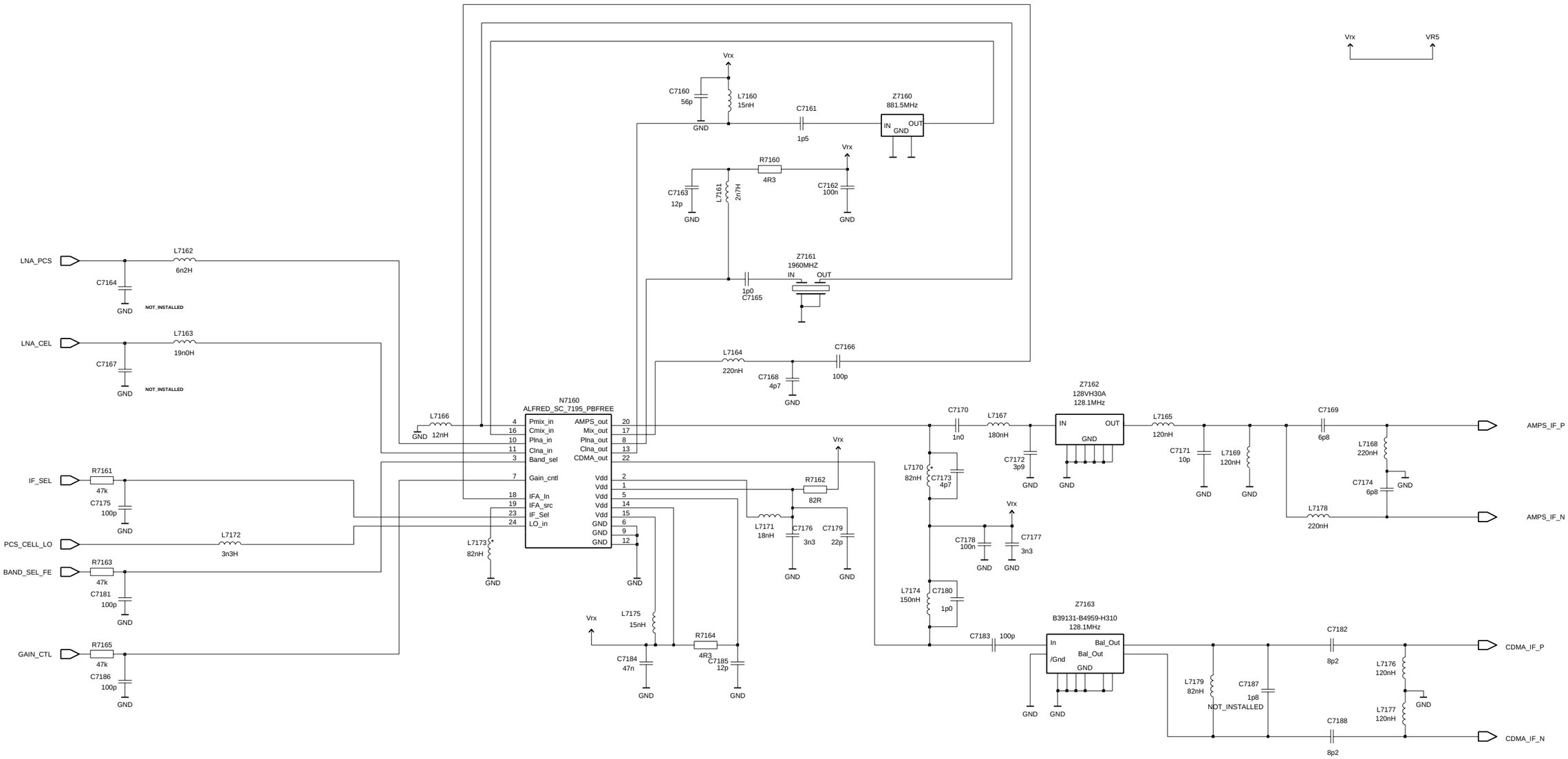
Front End



	LOGIC INPUTS		
MODES	BAND	GAIN_CTL	IF_SEL
CEL CDMA Hi Gain	0	1	0
CEL CDMA Lo Gain	0	0	0
PCS CDMA Hi Gain	1	1	0
PCS CDMA Lo Gain	1	0	0
AMPS Hi Gain	0	1	1
AMPS Lo Gain	0	0	1

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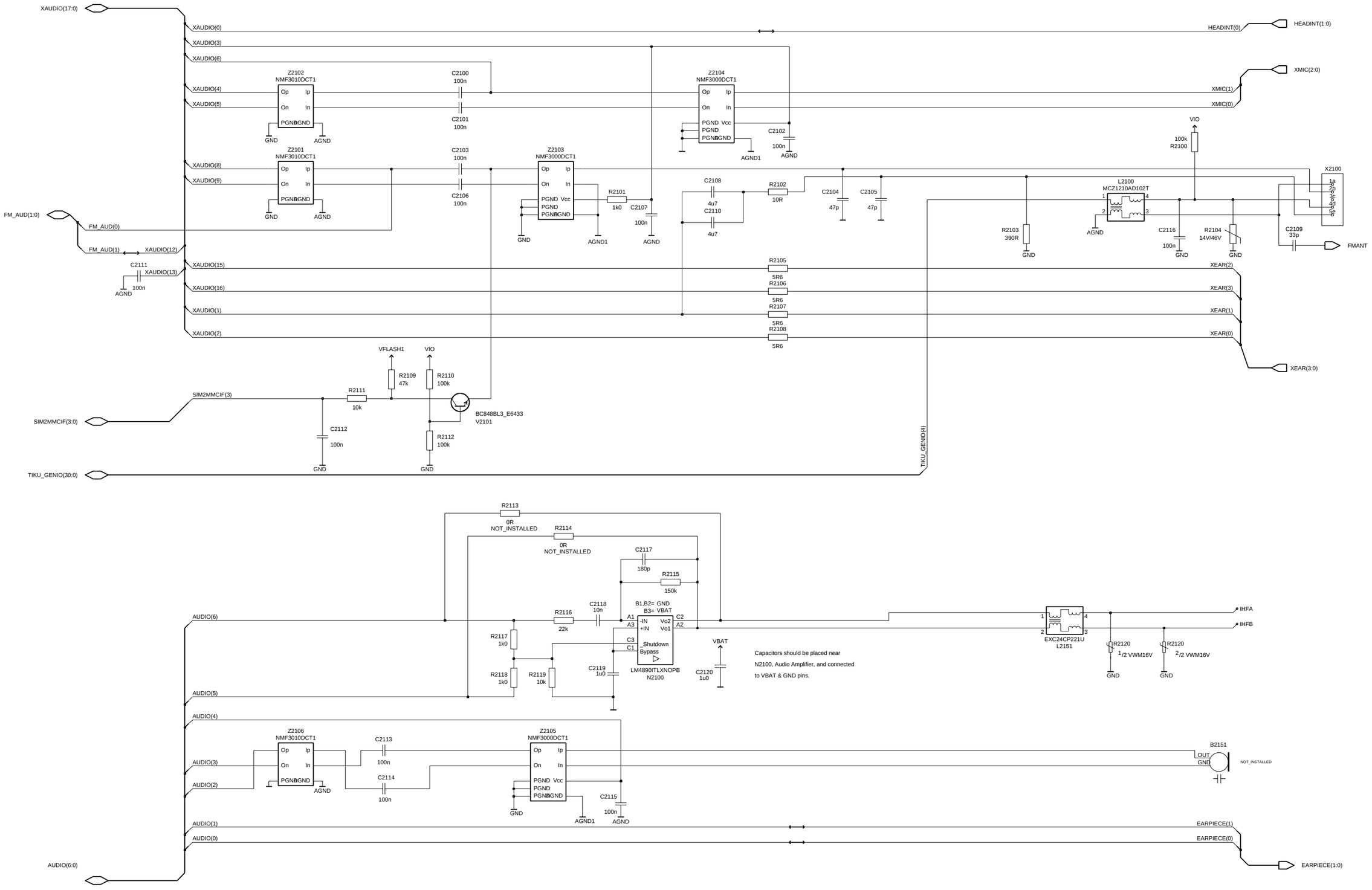
Audio



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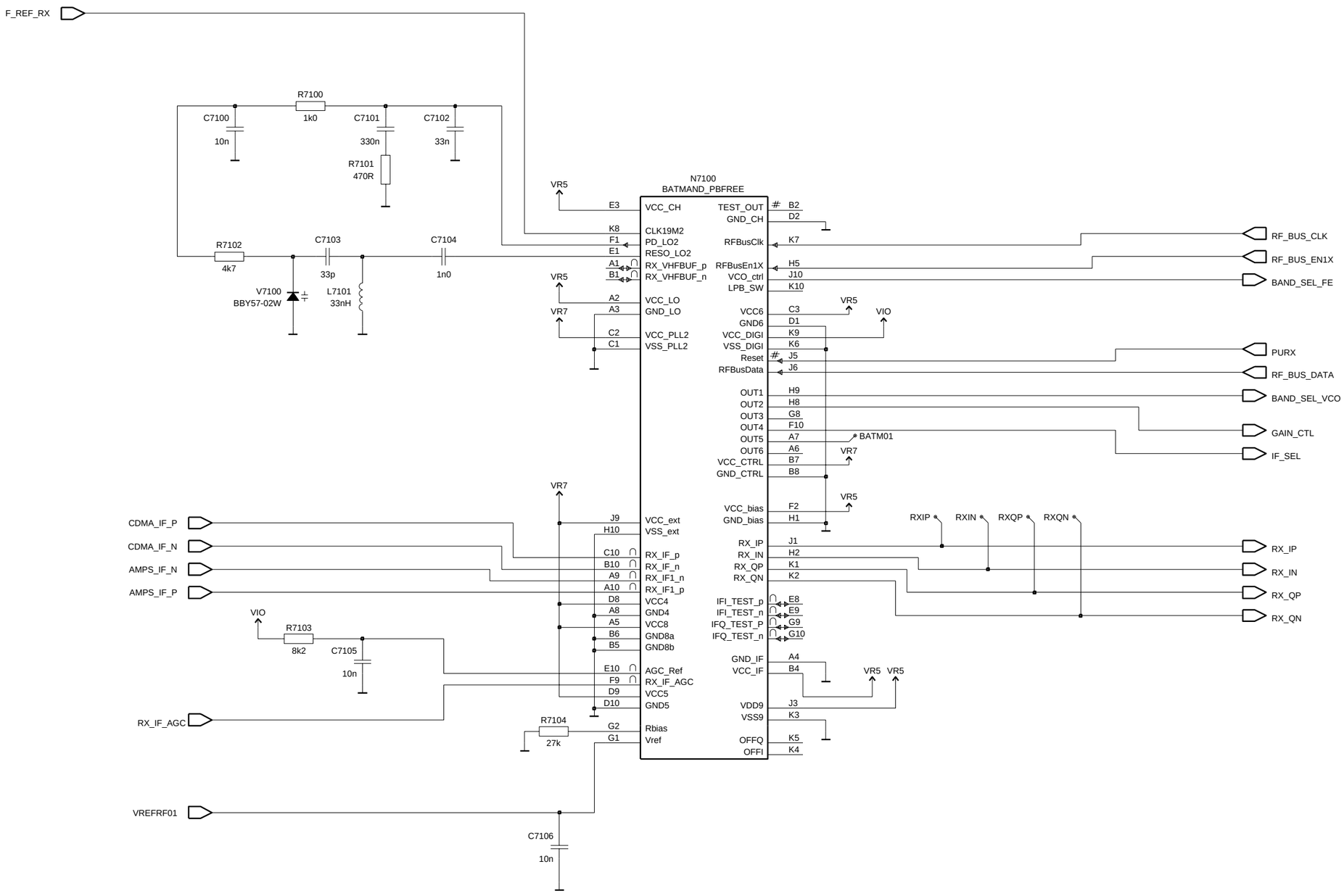
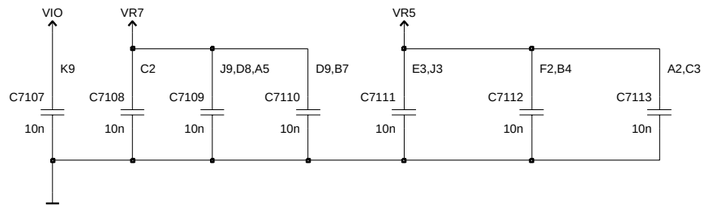
N7100 Rx Downconverter





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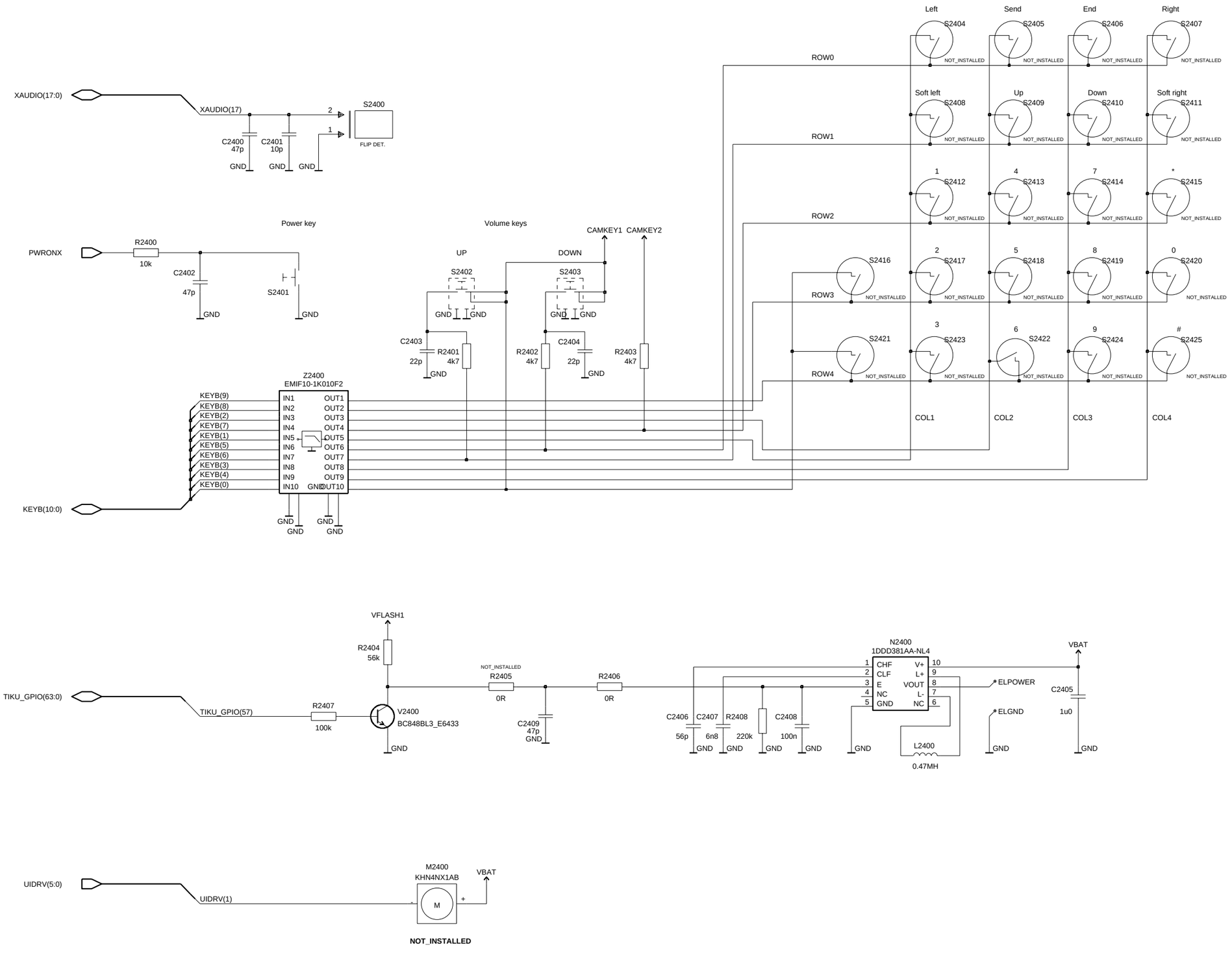
Key UI



NOT_INSTALLED

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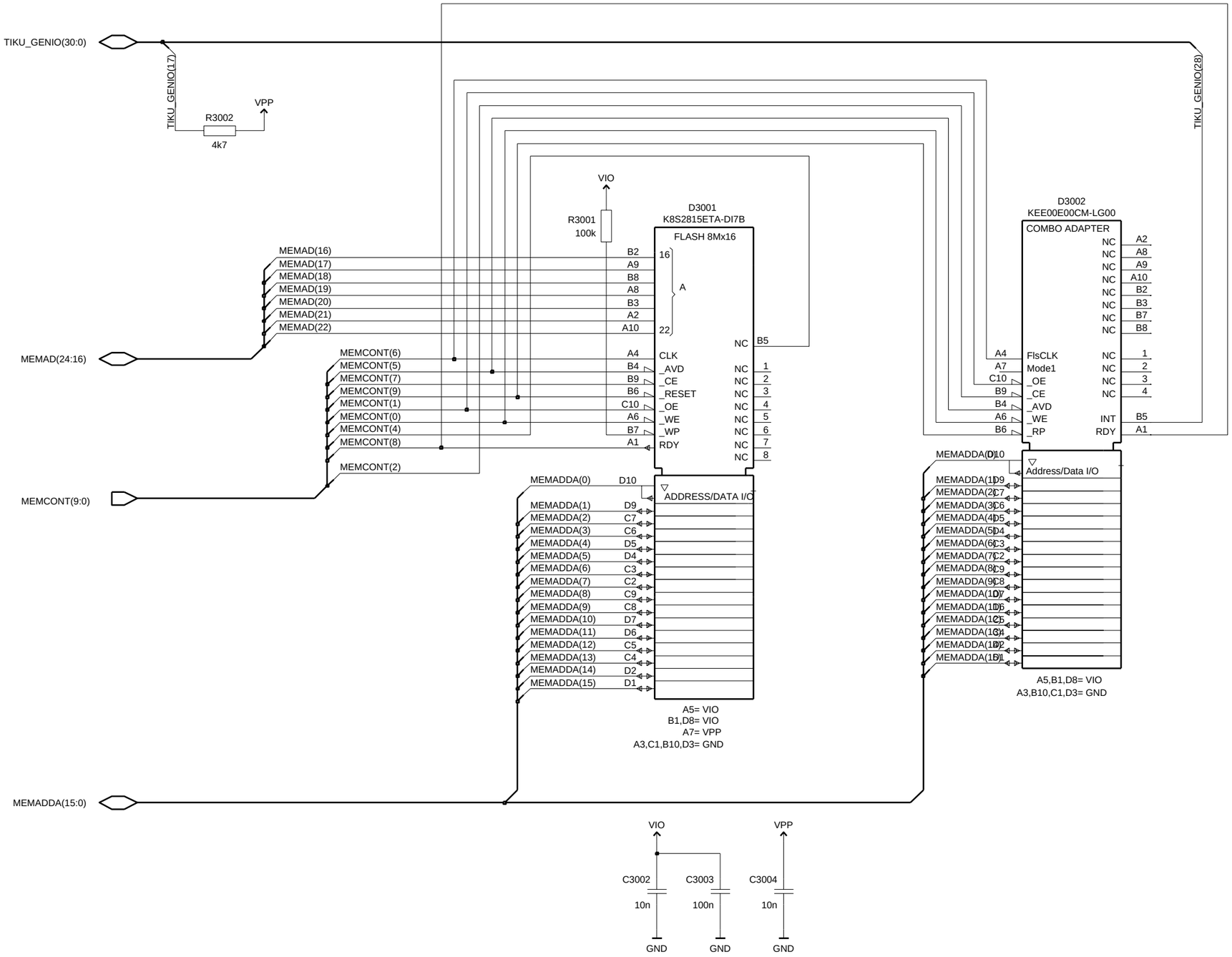
System Memory



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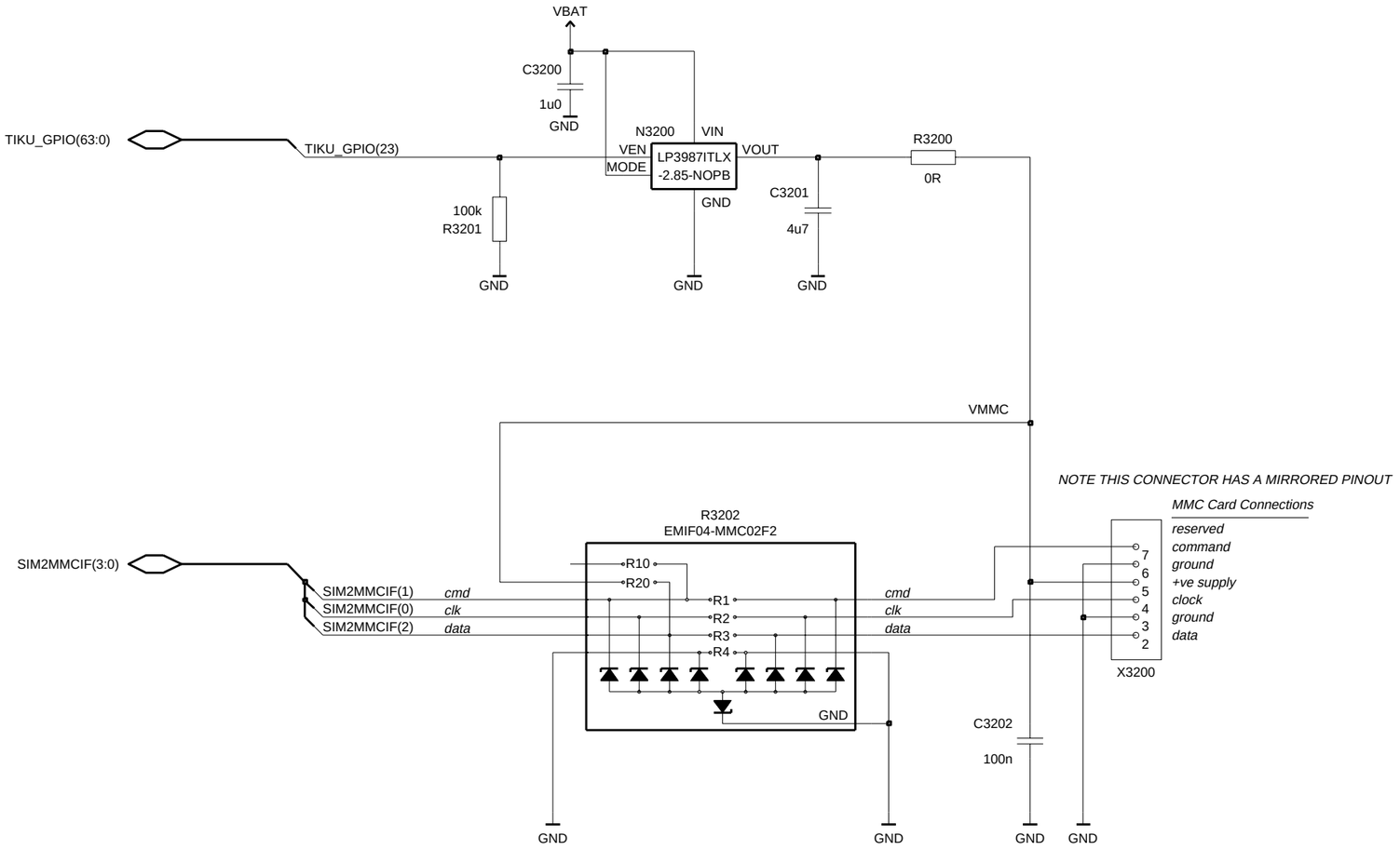
MMC



NOTE: The MMC specification imposes the following impedance limits

Command pullup resistance 4.7k to 100k
Data pullup resistance 50k to 100k

EMIF02-MMC R10=13k (therefore only suitable for command line)
EMIF02-MMC R20=56k (therefore only suitable for data line)
EMIF02-MMC R1/R2/R3/R4=47R

UEME includes a 13k pullup between GEN28IO2 (command) and VAUX1
so EMIF02-MMC R10 is left unconnected. UEME has no pullup on GEN28IO3 (MMC data)

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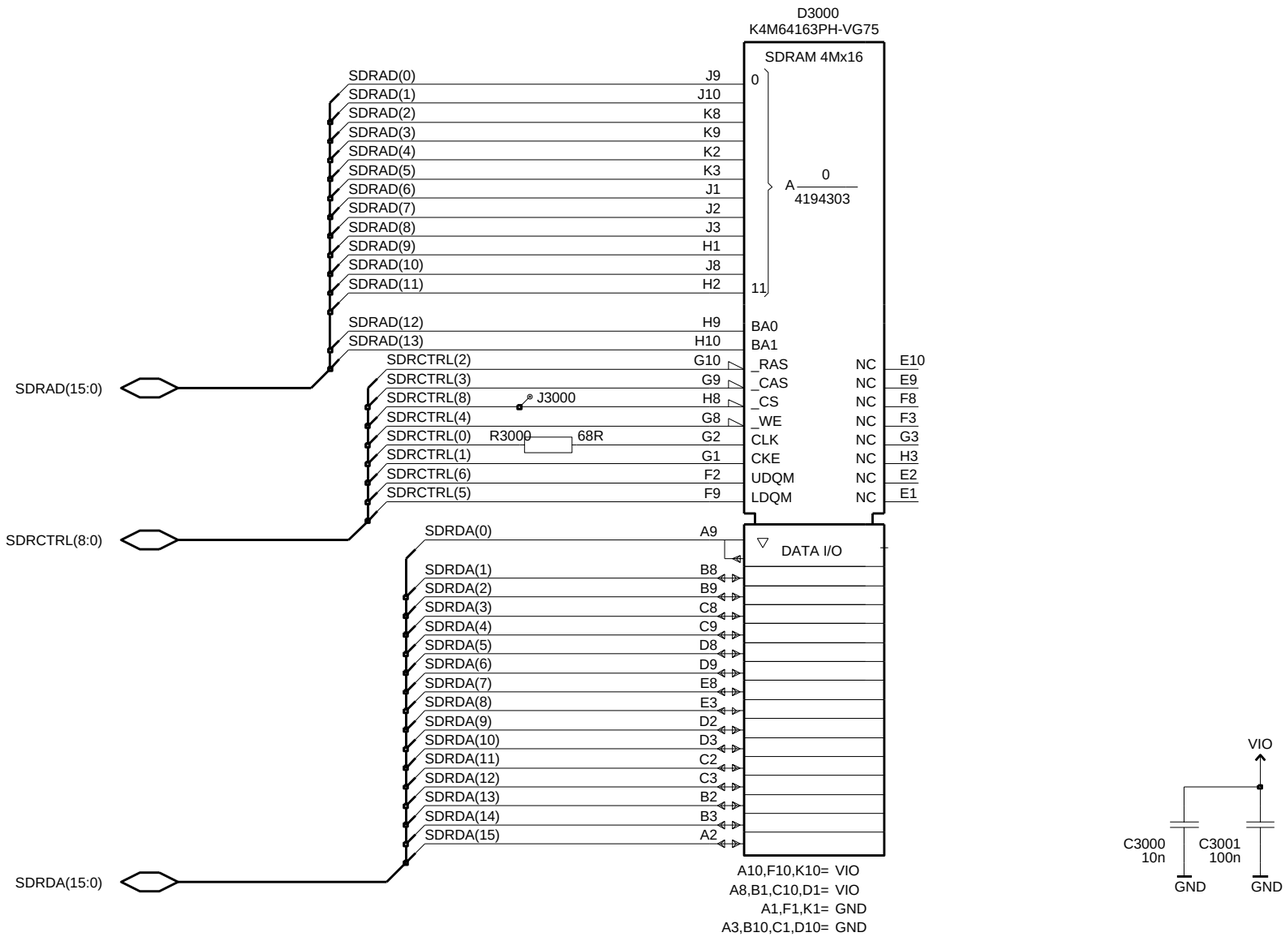
SDRAM Memory



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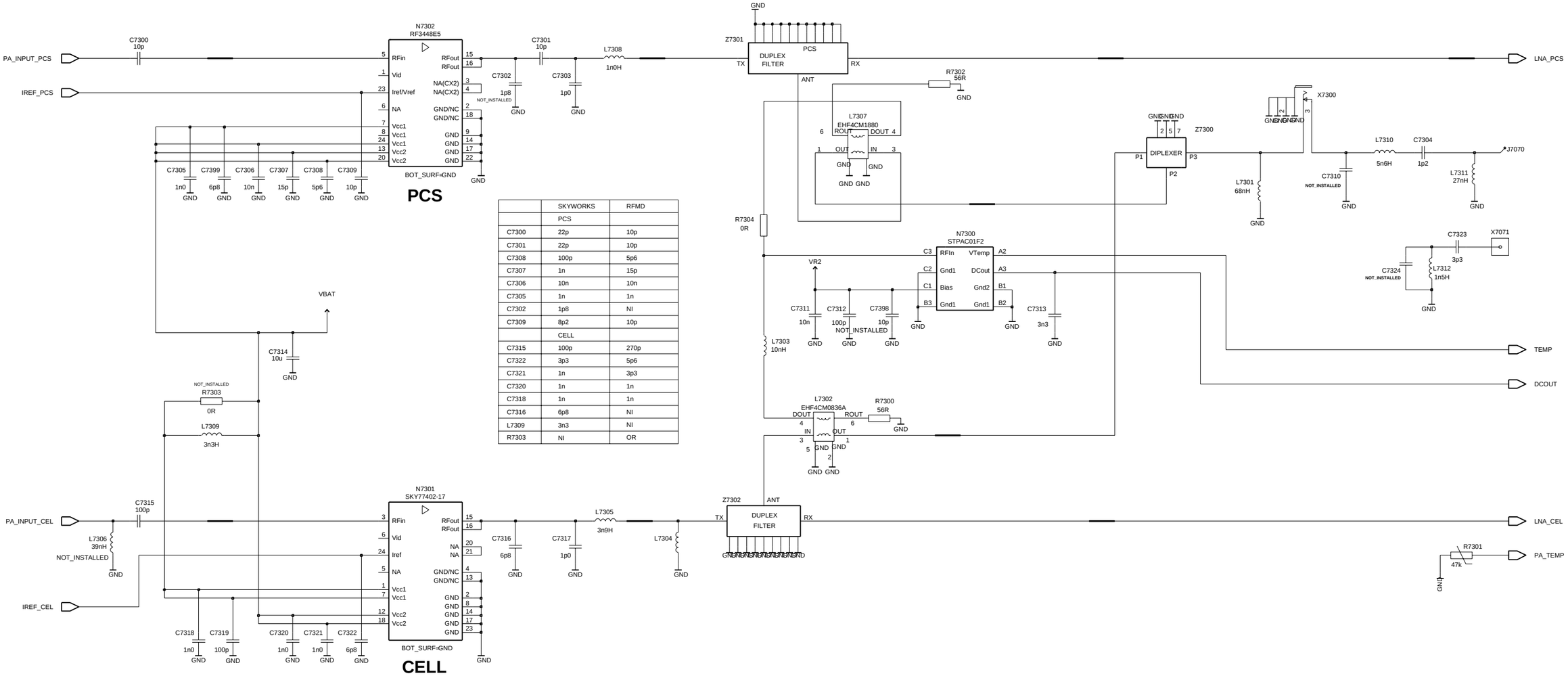
PA



PCS

	SKYWORKS	RFMD
	PCS	
C7300	22p	10p
C7301	22p	10p
C7308	100p	5p6
C7307	1n	15p
C7306	10n	10n
C7305	1n	1n
C7302	1p8	NI
C7309	8p2	10p
	CELL	
C7315	100p	270p
C7322	3p3	5p6
C7321	1n	3p3
C7320	1n	1n
C7318	1n	1n
C7316	6p8	NI
L7309	3n3	NI
R7303	NI	OR

CELL

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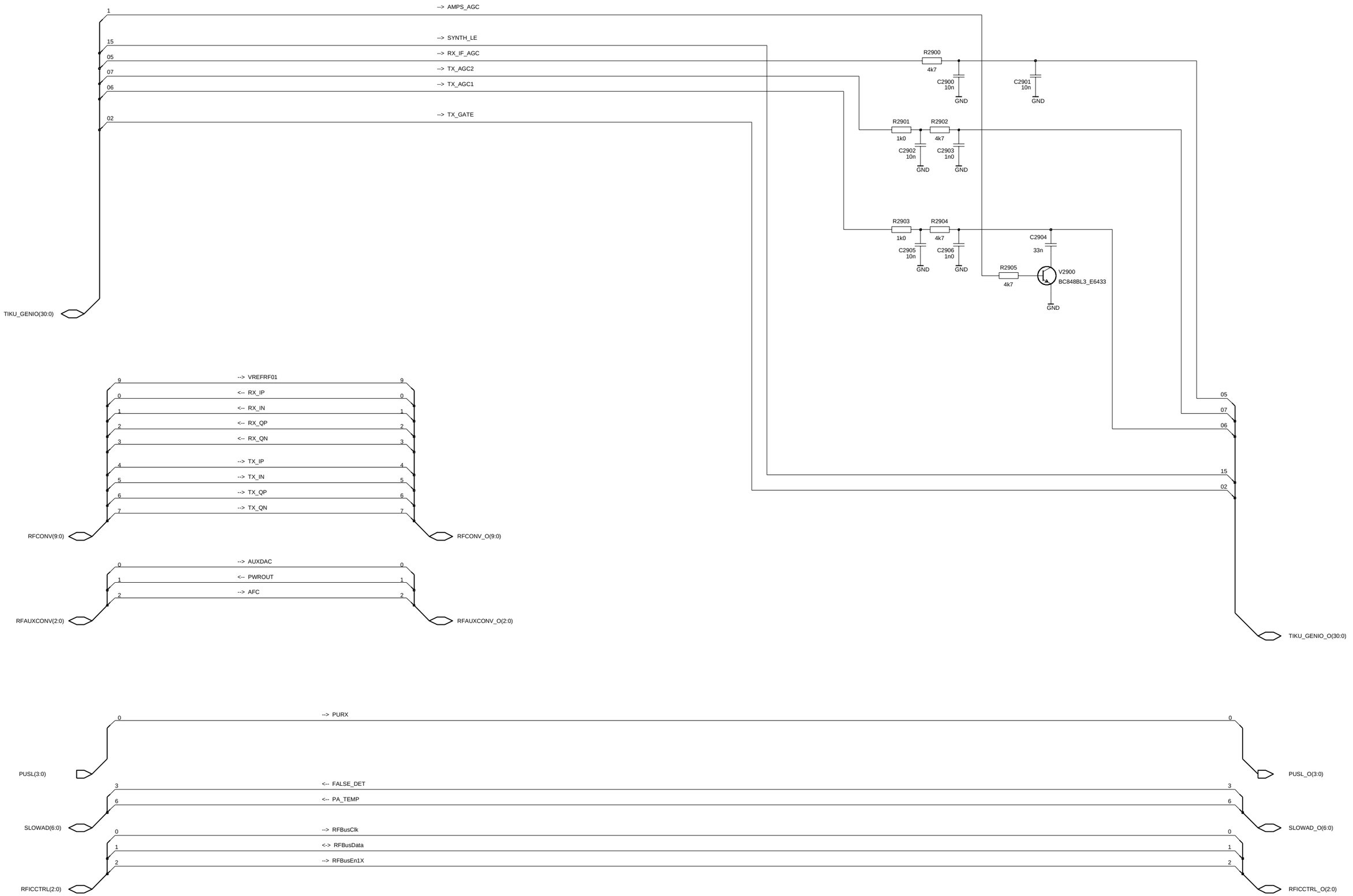
RF-BB Interface



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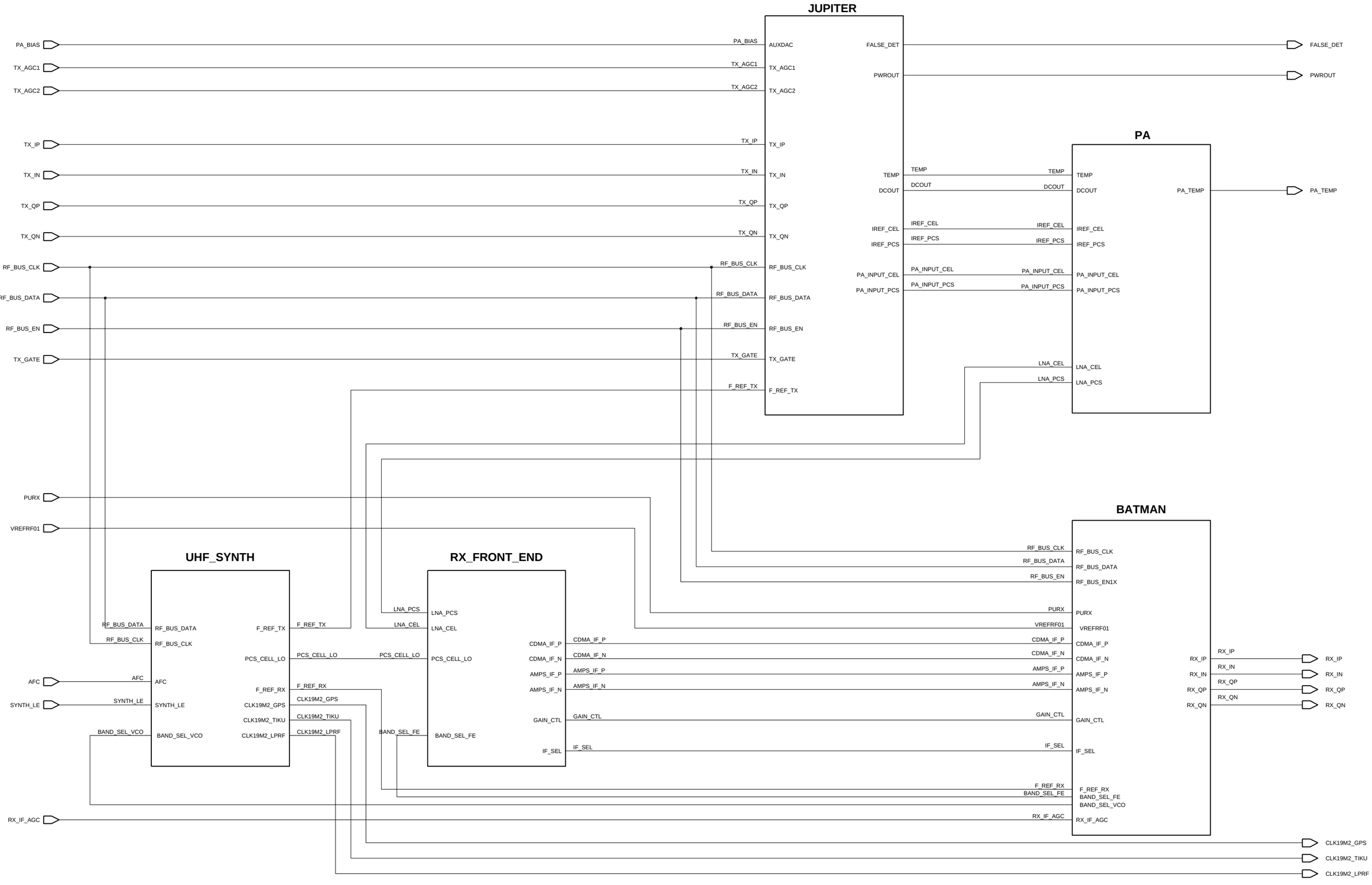
RF - Top



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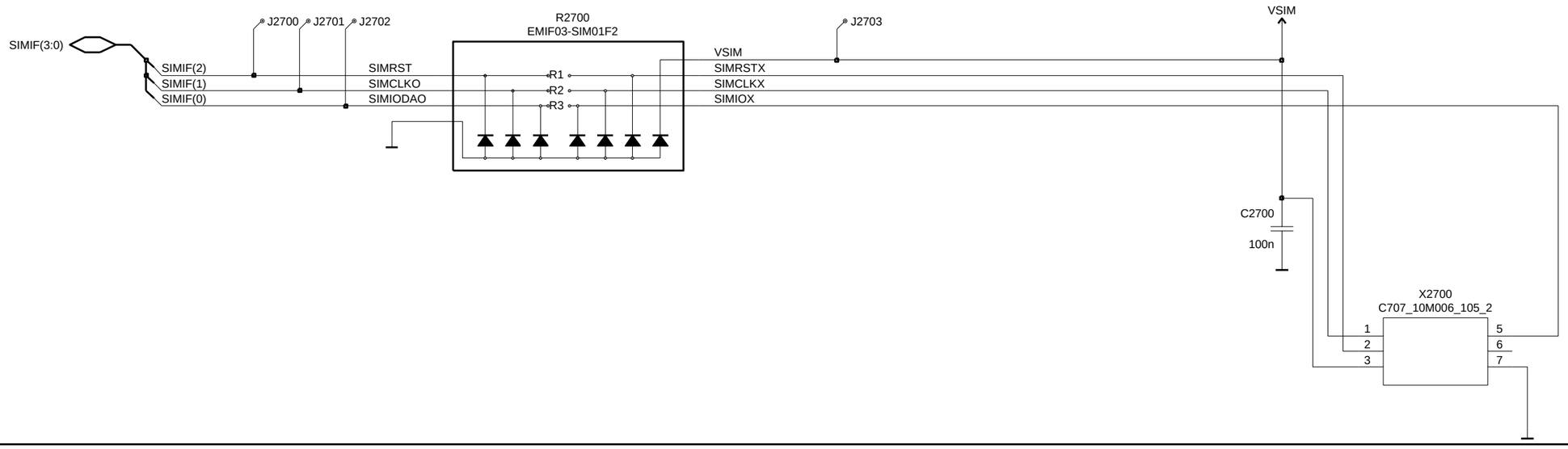
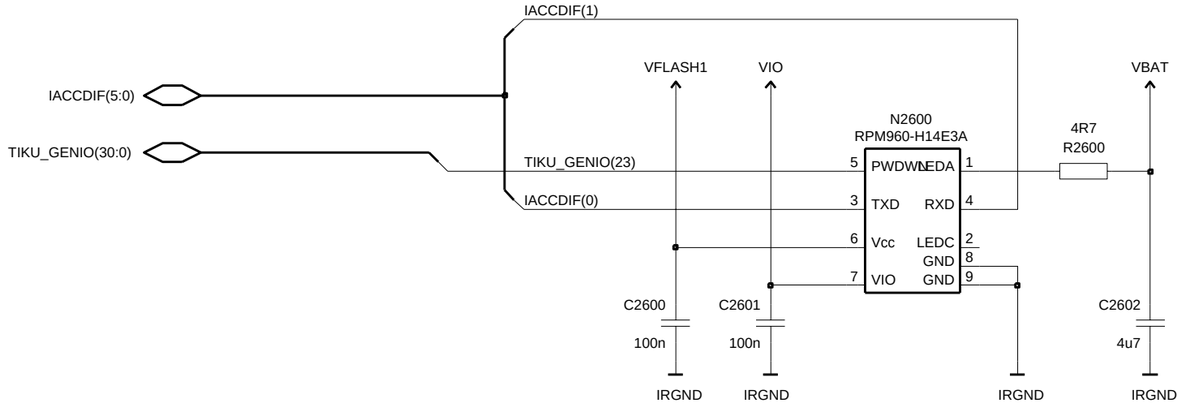
SIM Reader



Sharp IR Module



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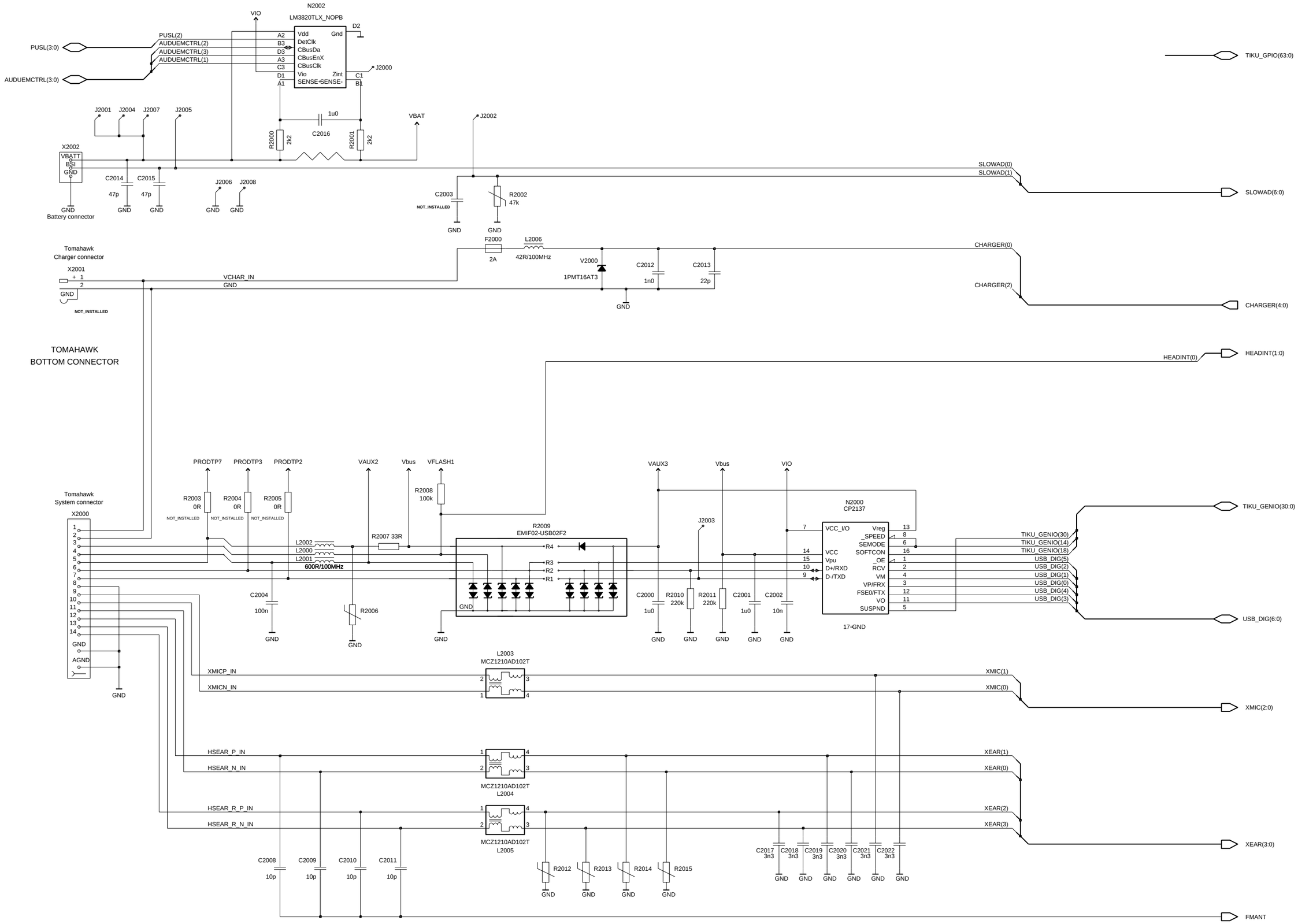
System Connector



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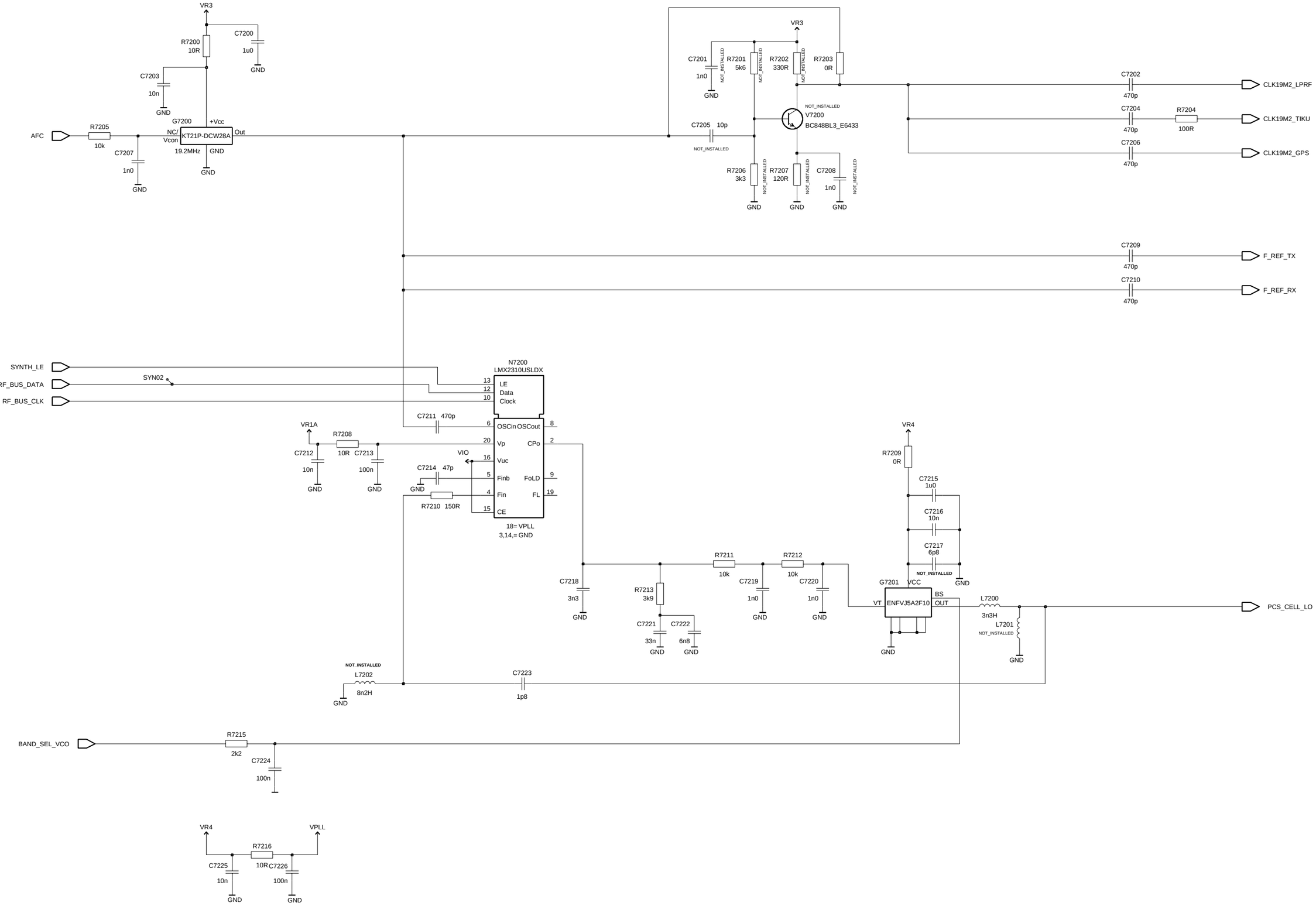
UHF Synthesizer



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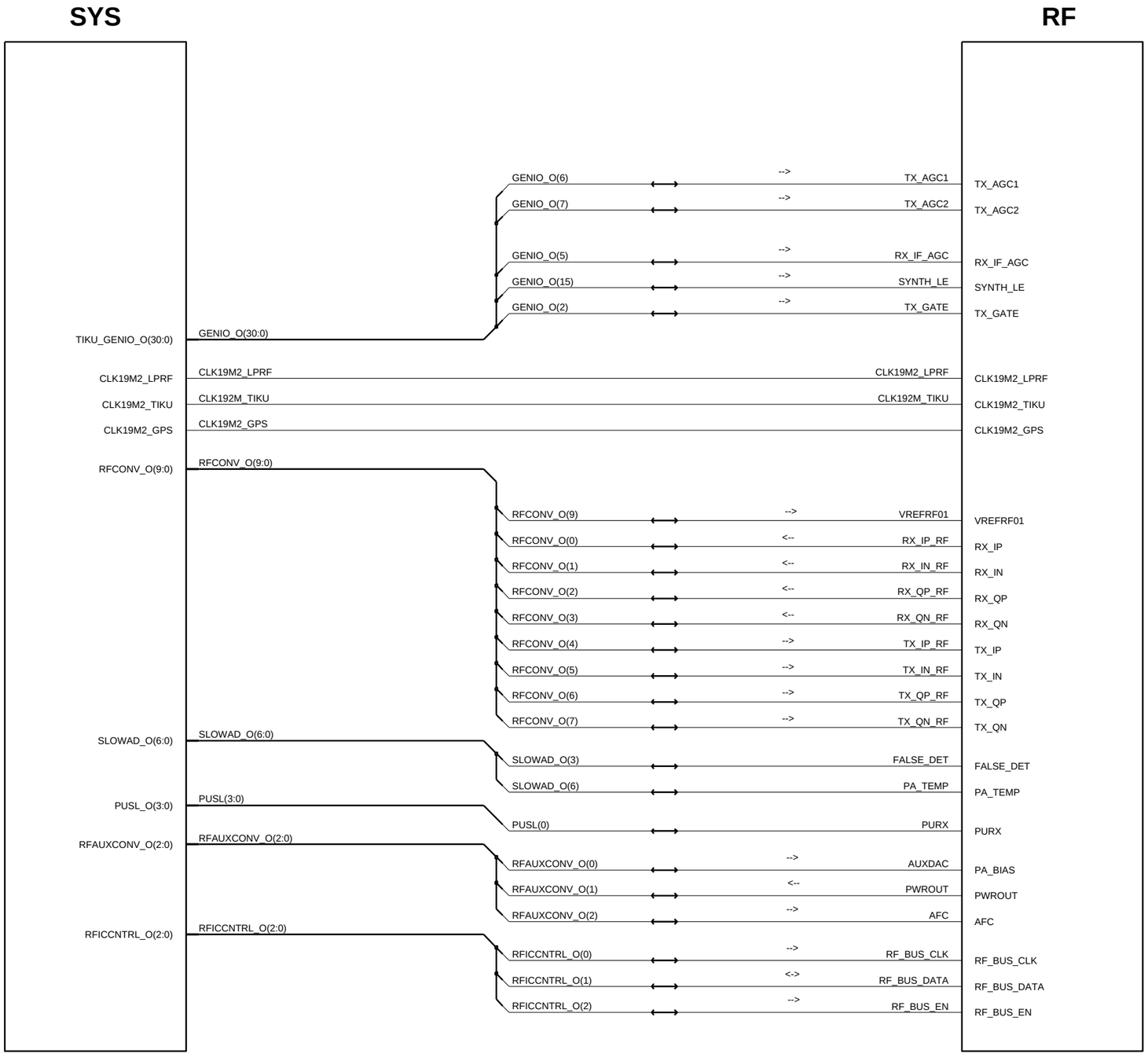
Top Level - Part 1



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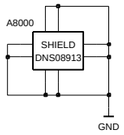
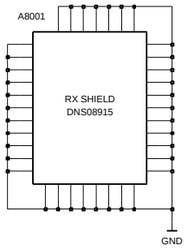
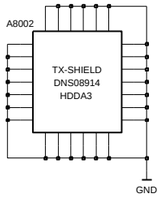
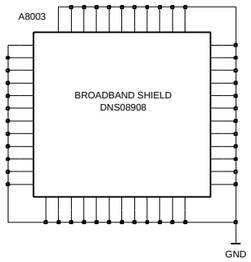
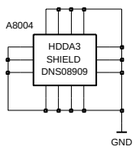
Top Level - Part 2











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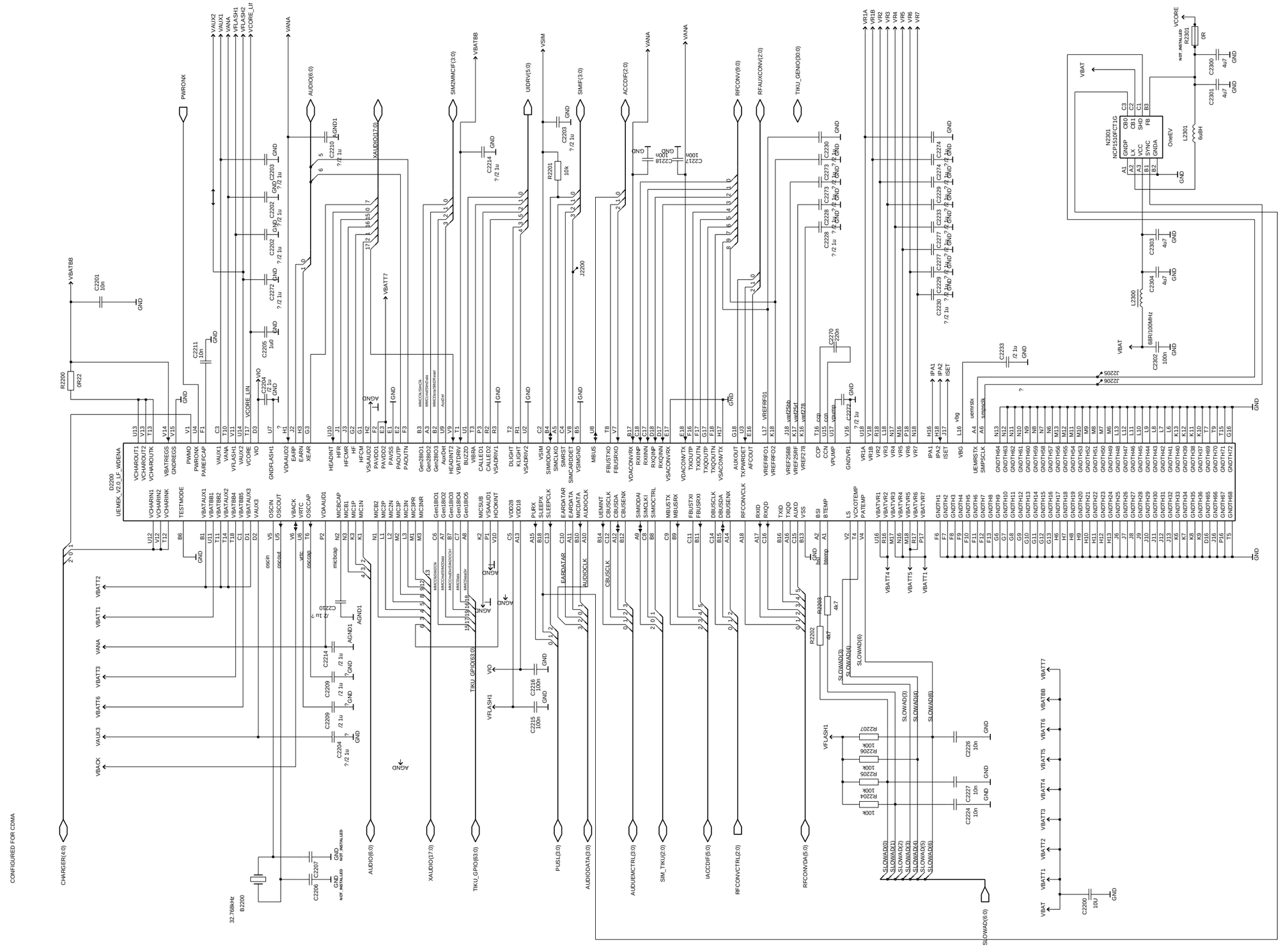
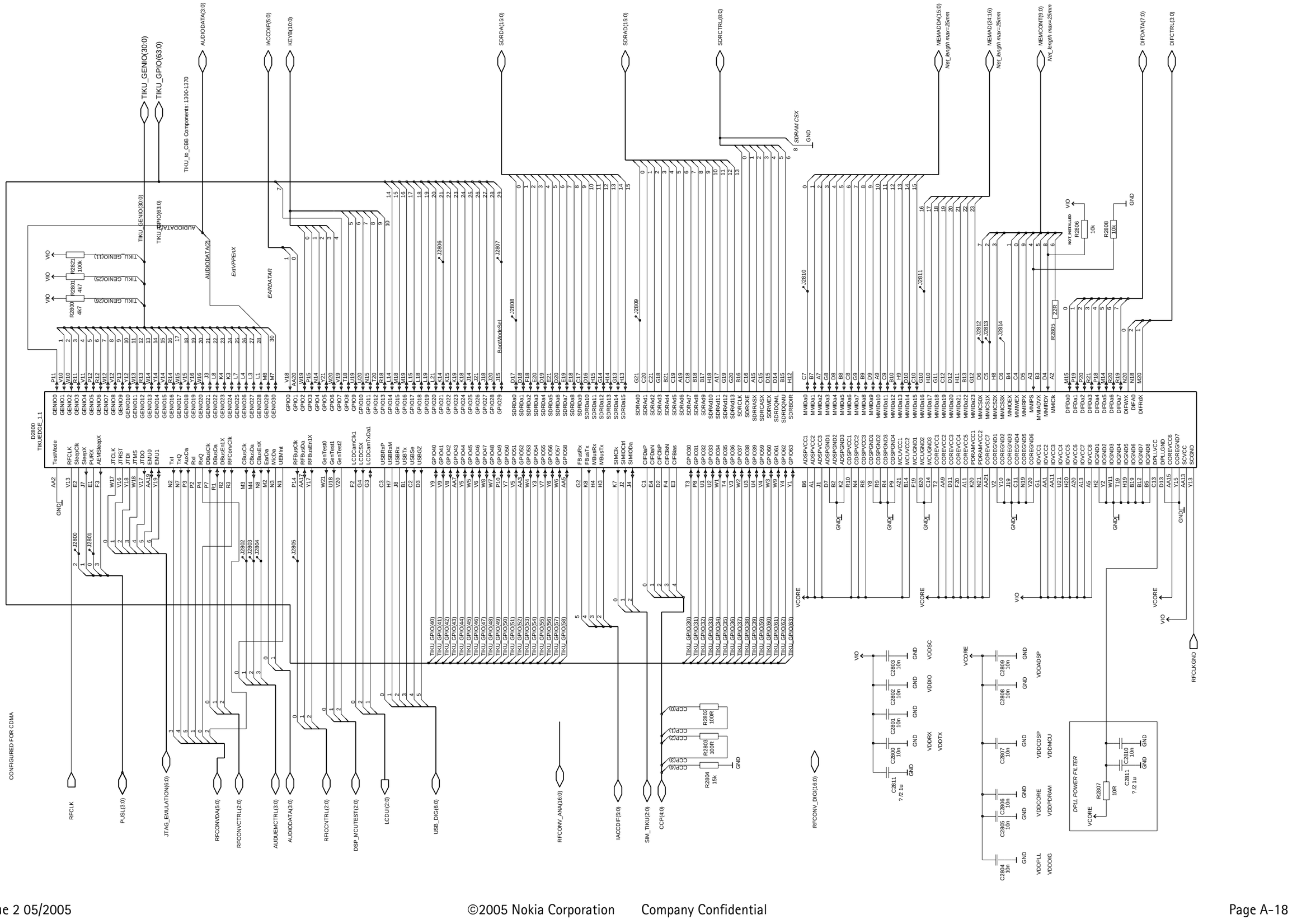
UEME


D2200
UEMEK_V2.0_LF_WDENA
VBATBB
C2201
10n
R2200
0R22
PWRONX
C2211
10n
VAUX2
VAUX1
VANA
VFLASH1
VFLASH2
VCORE_LIN
C2205
1u0
C2204
/2 1u
C2272
? /2 1u
C2202
? /2 1u
C2203
? /2 1u
C2210
? /2 1u
C2214
? /2 1u
C2209
? /2 1u
C2216
100n
C2215
100n
C2204
? /2 1u
C2207
NOT INSTALLED
B2200
32.768kHz
AUDIO[6:0]
XAUDIO[17:0]
SIM2MMCIF[3:0]
TIKU_GPIO[63:0]
PUSLI[3:0]
AUDIODATA[3:0]
AUDUEMCTRL[3:0]
SIM_TIKUI[2:0]
IACCDIF[5:0]
RFCONVCTRL[2:0]
RFCONVDA[5:0]
SLOWAD[6:0]
CHARGER[4:0]
UIDRV[5:0]
ACCDIF[2:0]
RFCONV[9:0]
RFAUXCONV[2:0]
TIKU_GENIO[30:0]
VBATBB
VBATT1
VBATT2
VBATT3
VBATT4
VBATT5
VBATT6
VBATT7
VANA
VAUX3
VBACK
VCORE
N2301
NCP1550FCT1G
OneEV
L2301
6u8H
L2300
68R/100MHz
C2300
C2301
C2302
100n
C2303
C2304
4u7
R2301
0R
J2205
J2206
R2207
R2206
R2205
R2204
100K
R2202
R2203
4K7
C2224
C2226
C2227
10n
C2200
10u
GND
AGND
VIO

UPP



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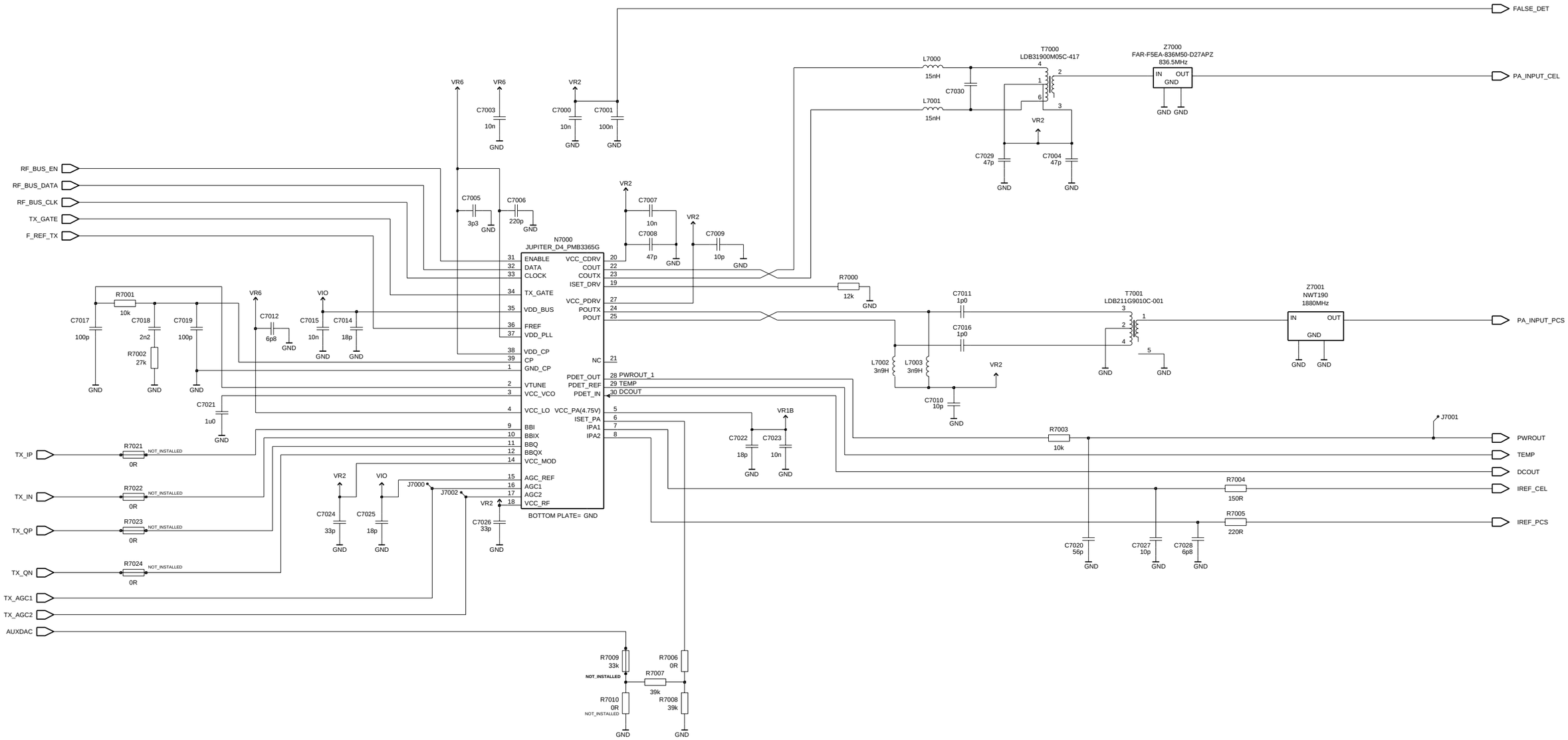
N7000 Tx Upconverter



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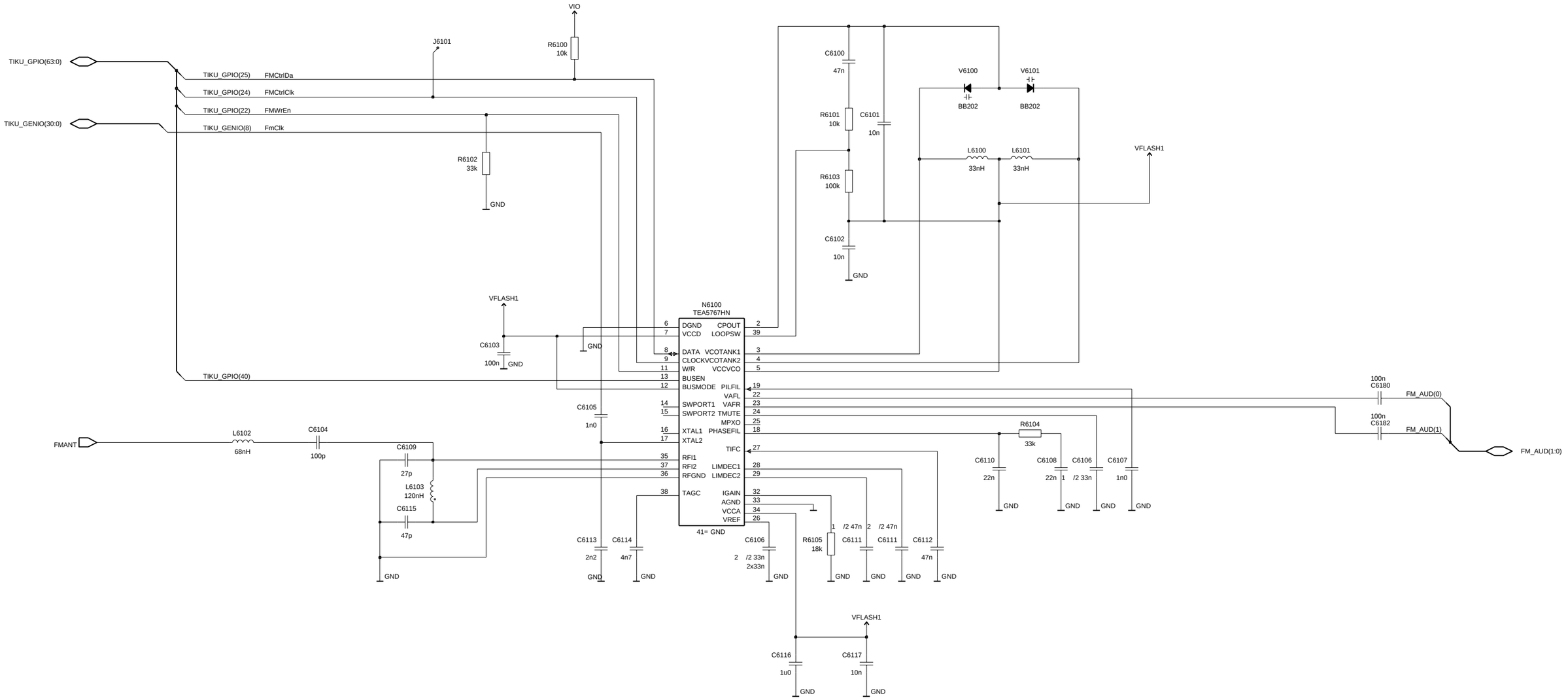
FM Radio



Notice:

C374 (1n0) and C375 (2n2) are configured for 32kHz reference clock

If reference clock is 6.5MHz, use C374 (3p9) and C375 (10p)

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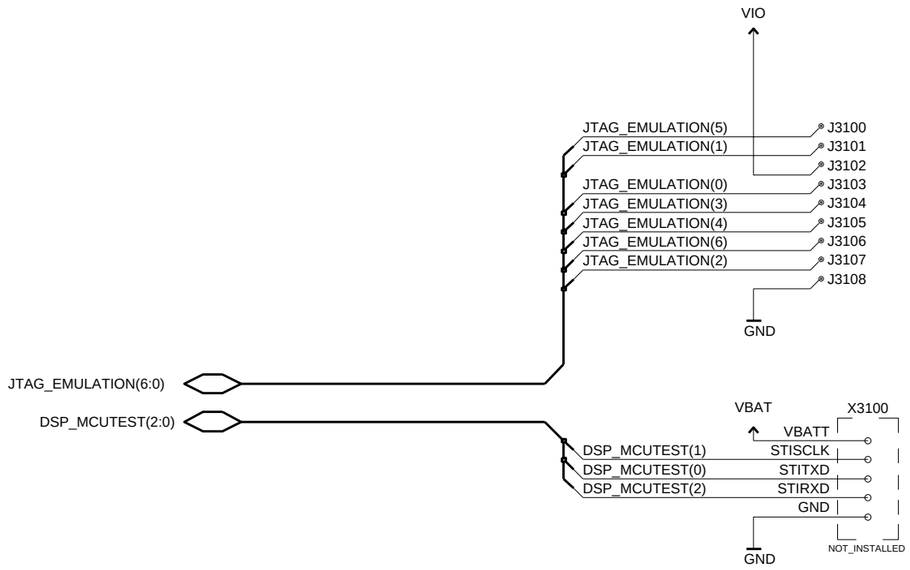
J-Tag



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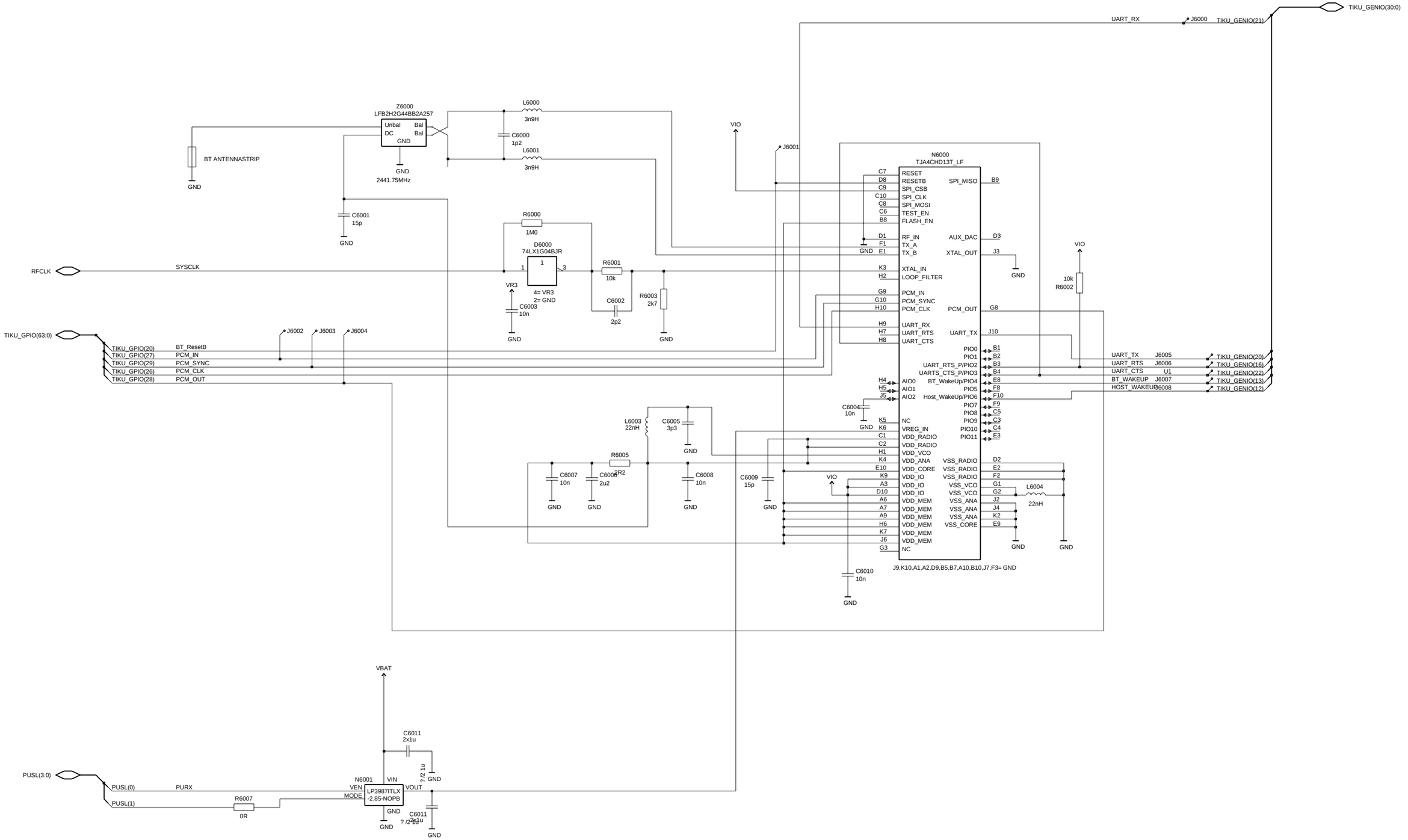
Low Power Radio Frequency (LPRF)



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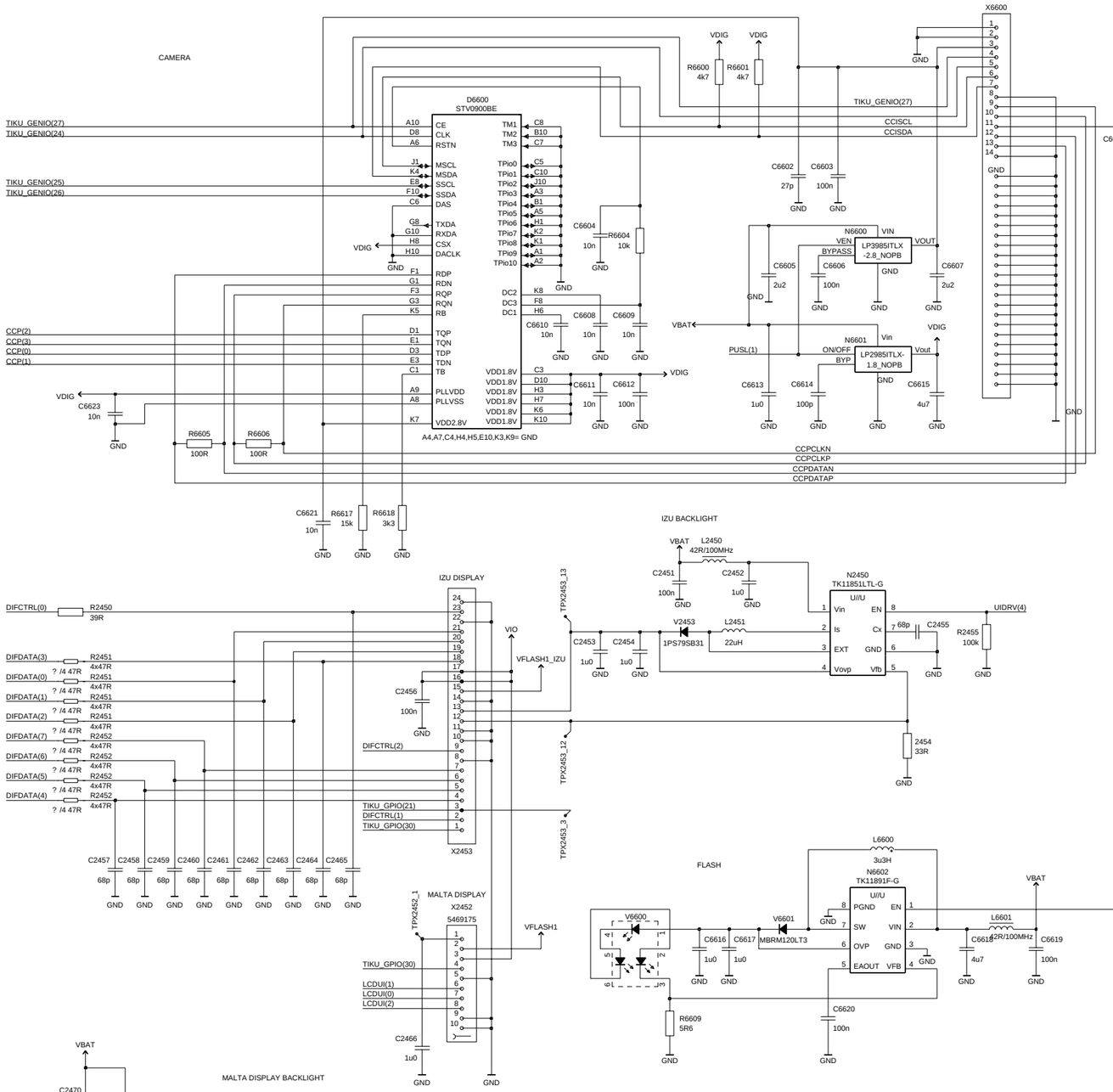
6255i and 6256i GPS Schematics - Secondary Display

GPS Top Level



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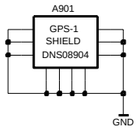
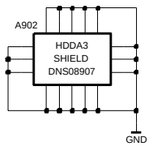
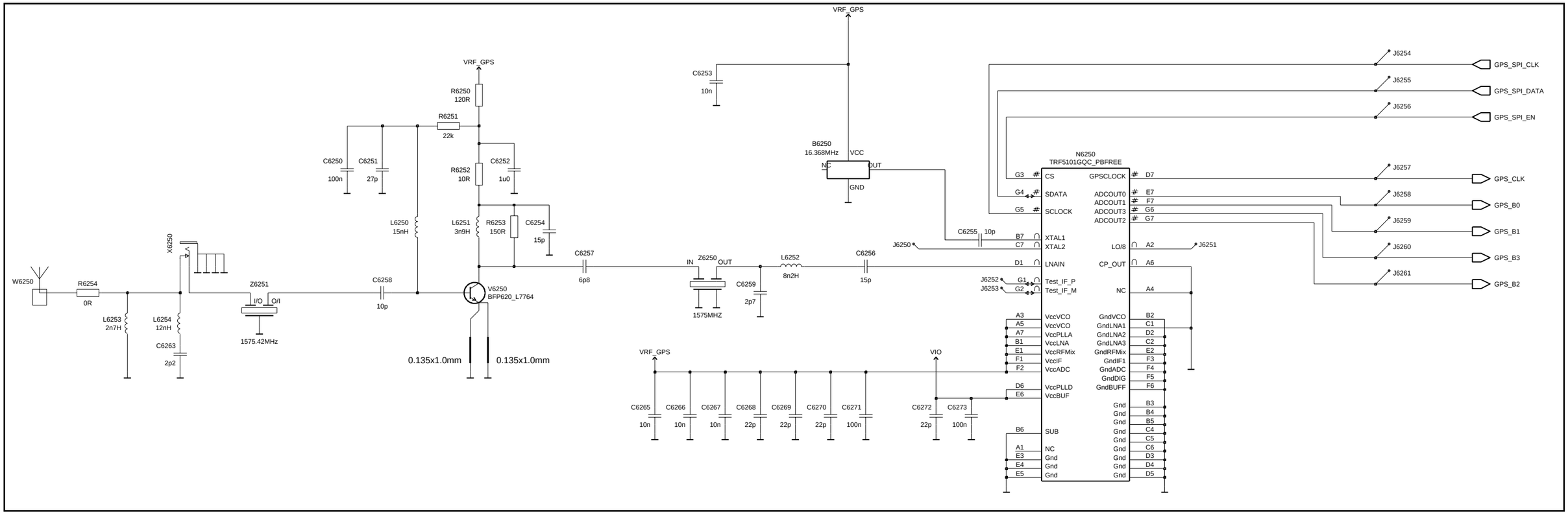
GPS Shield





GPS RF



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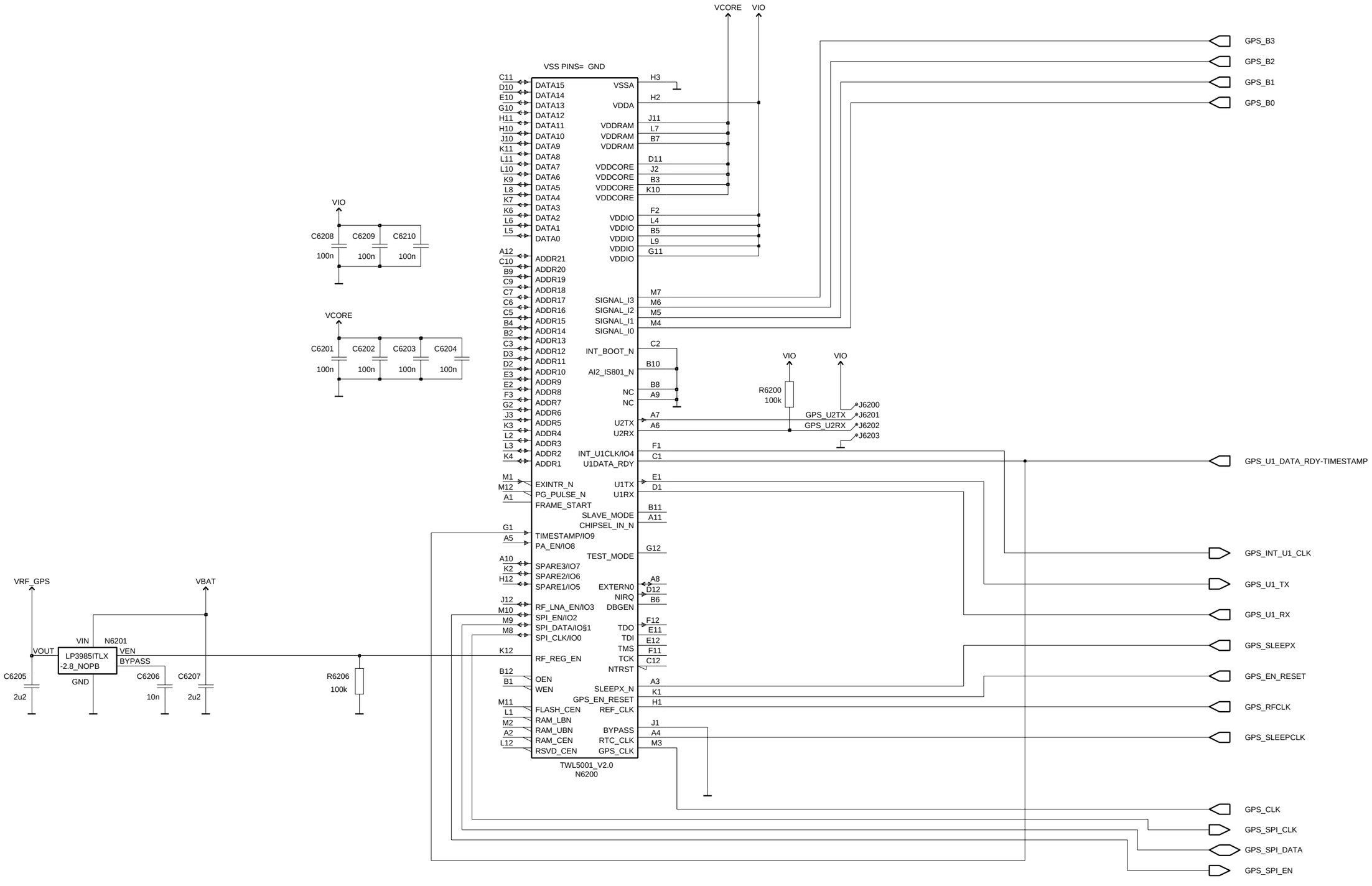
GPS BB



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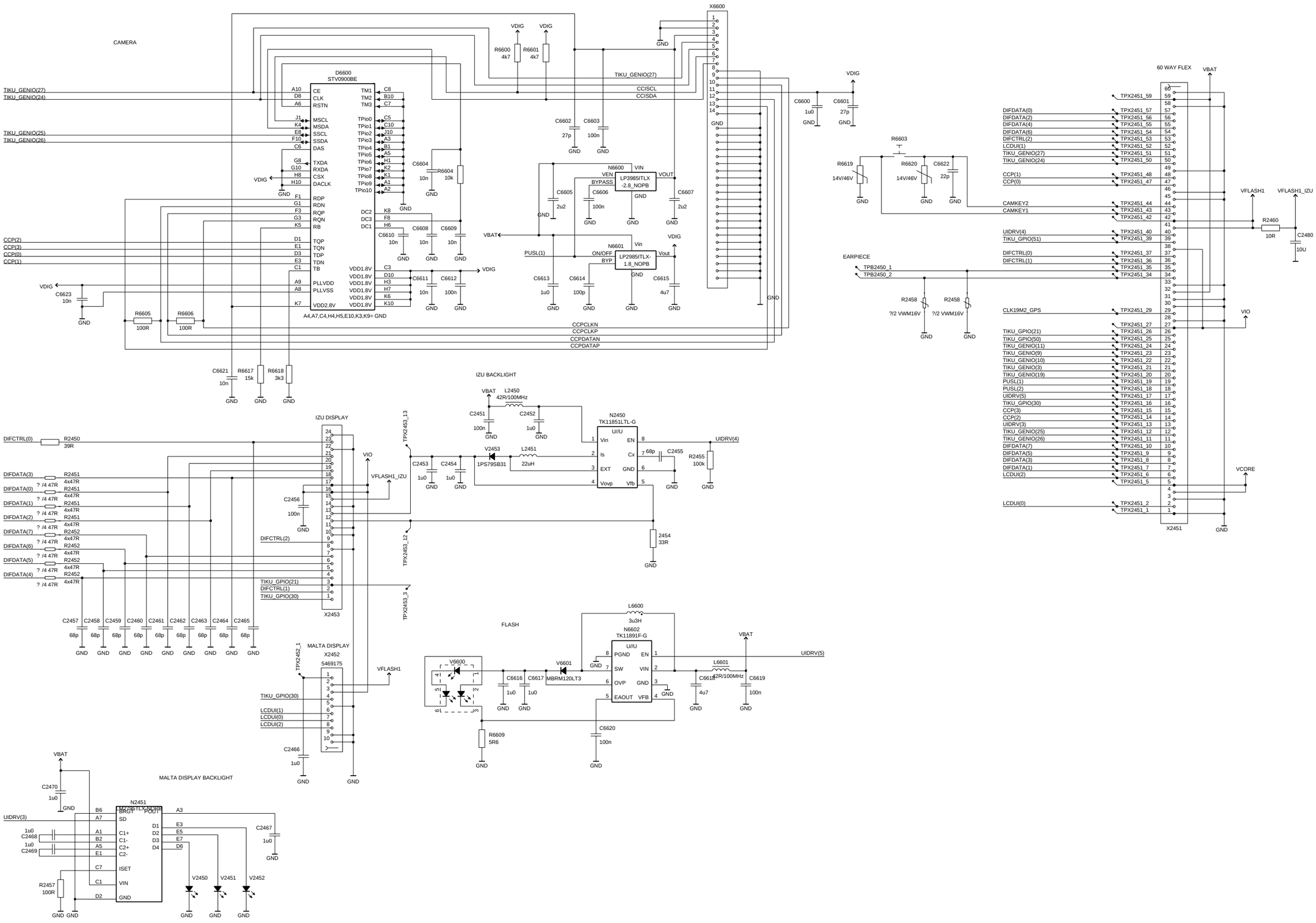
6255 and 6256 Non-GPS Schematics - Secondary Display



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Flex Cable

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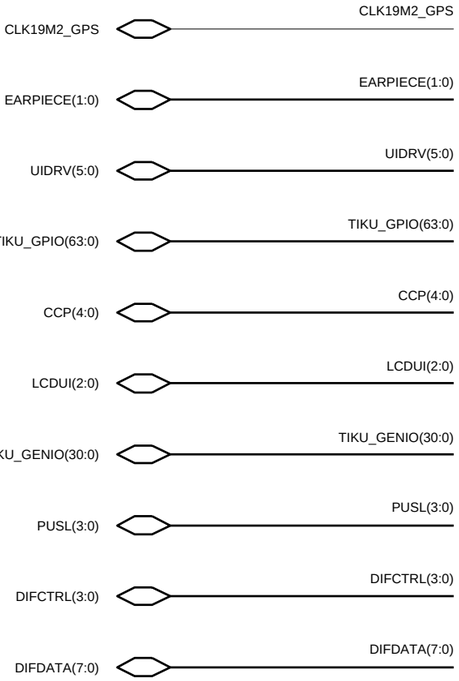
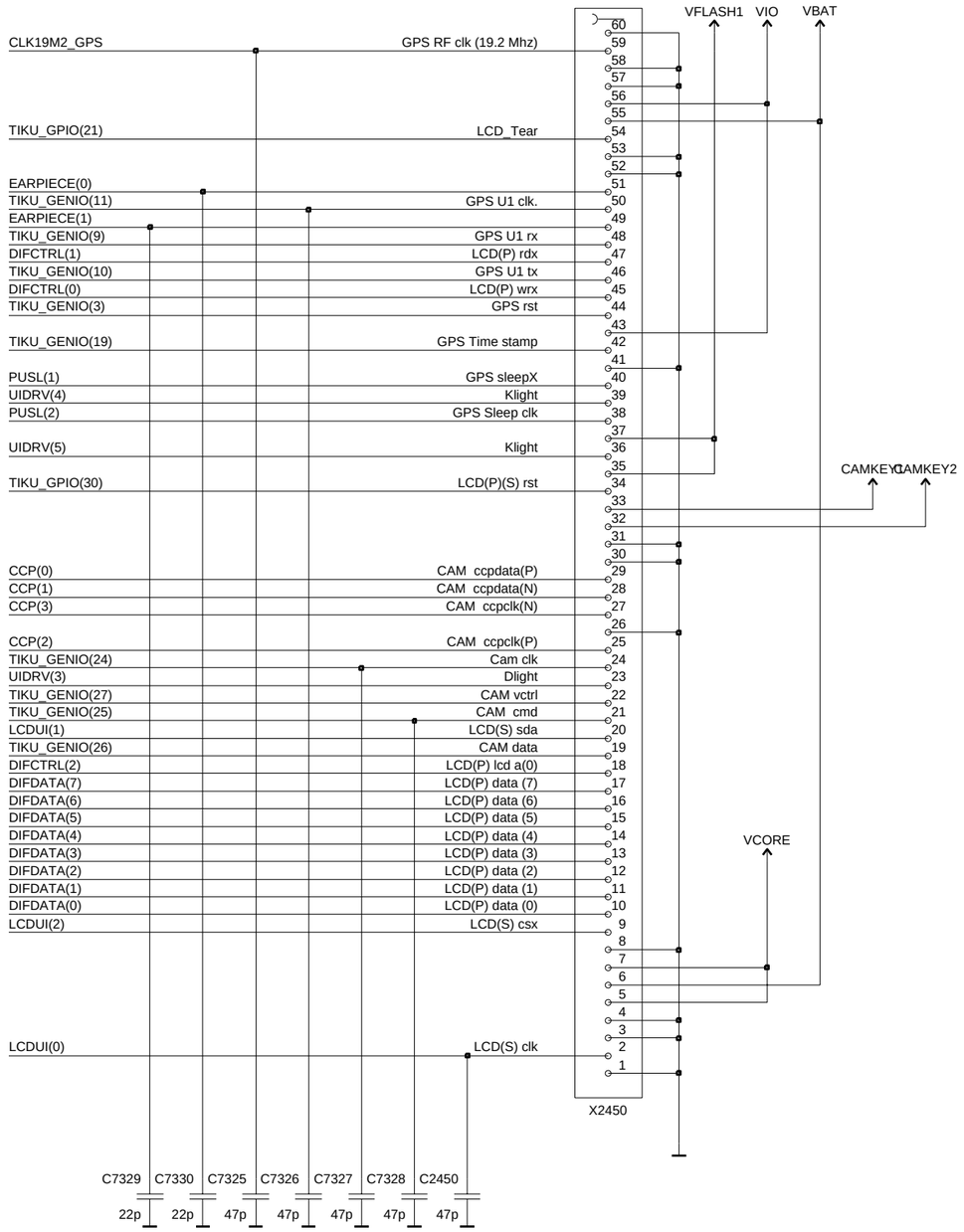
Flex Interface





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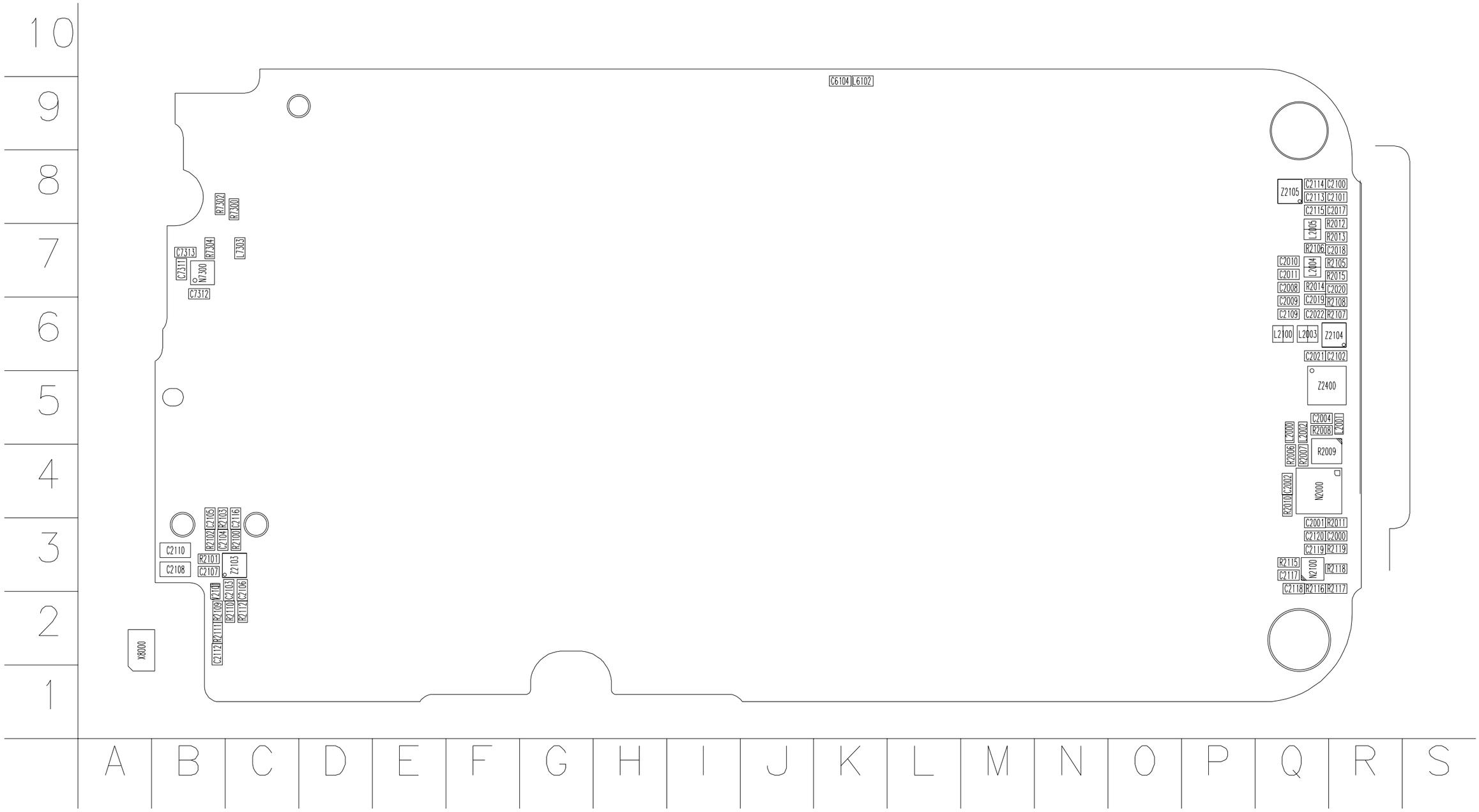
Component Layouts and Values — Main PWB

Component Layout - Top



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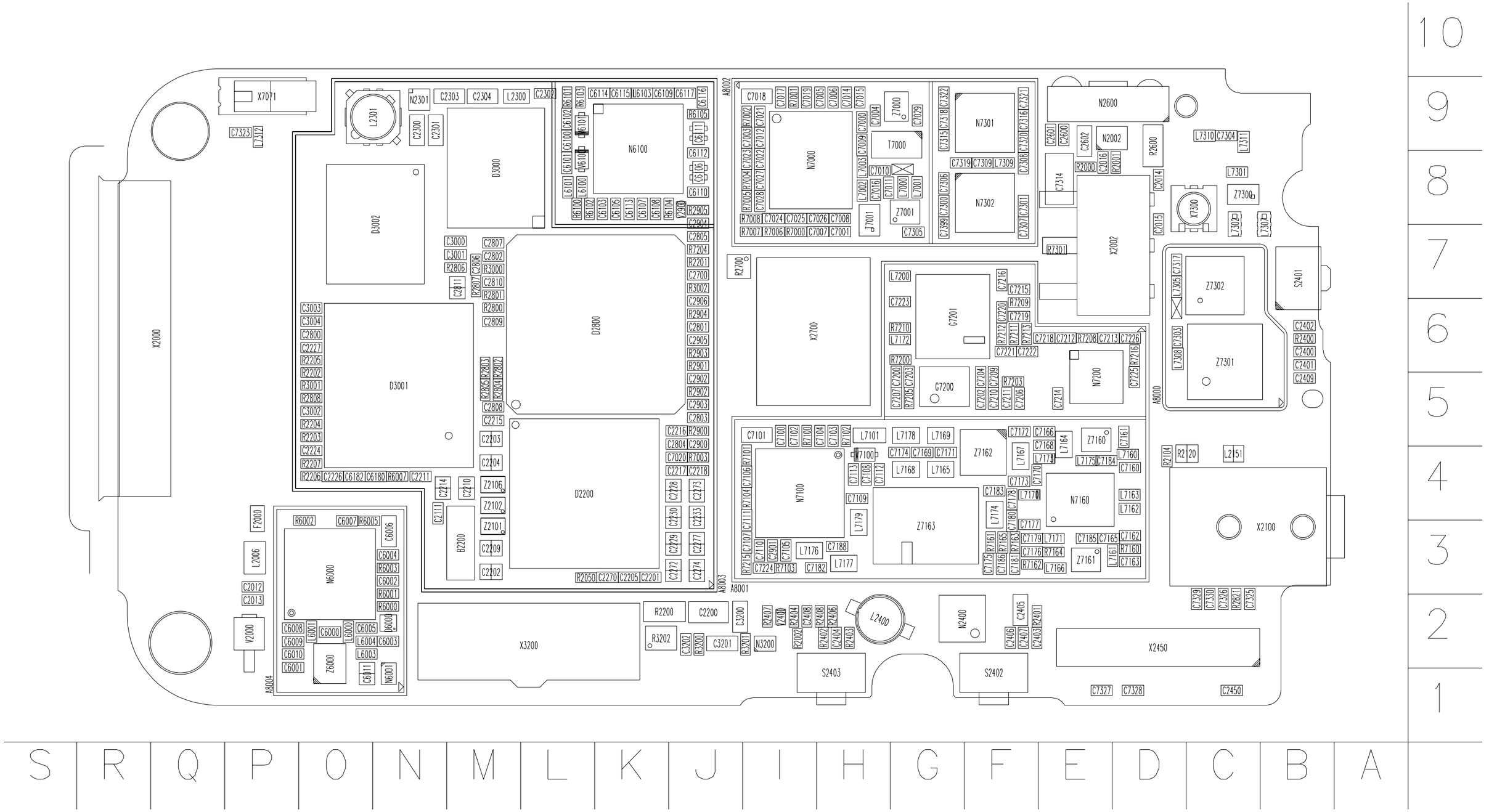
Component Layout - Bottom



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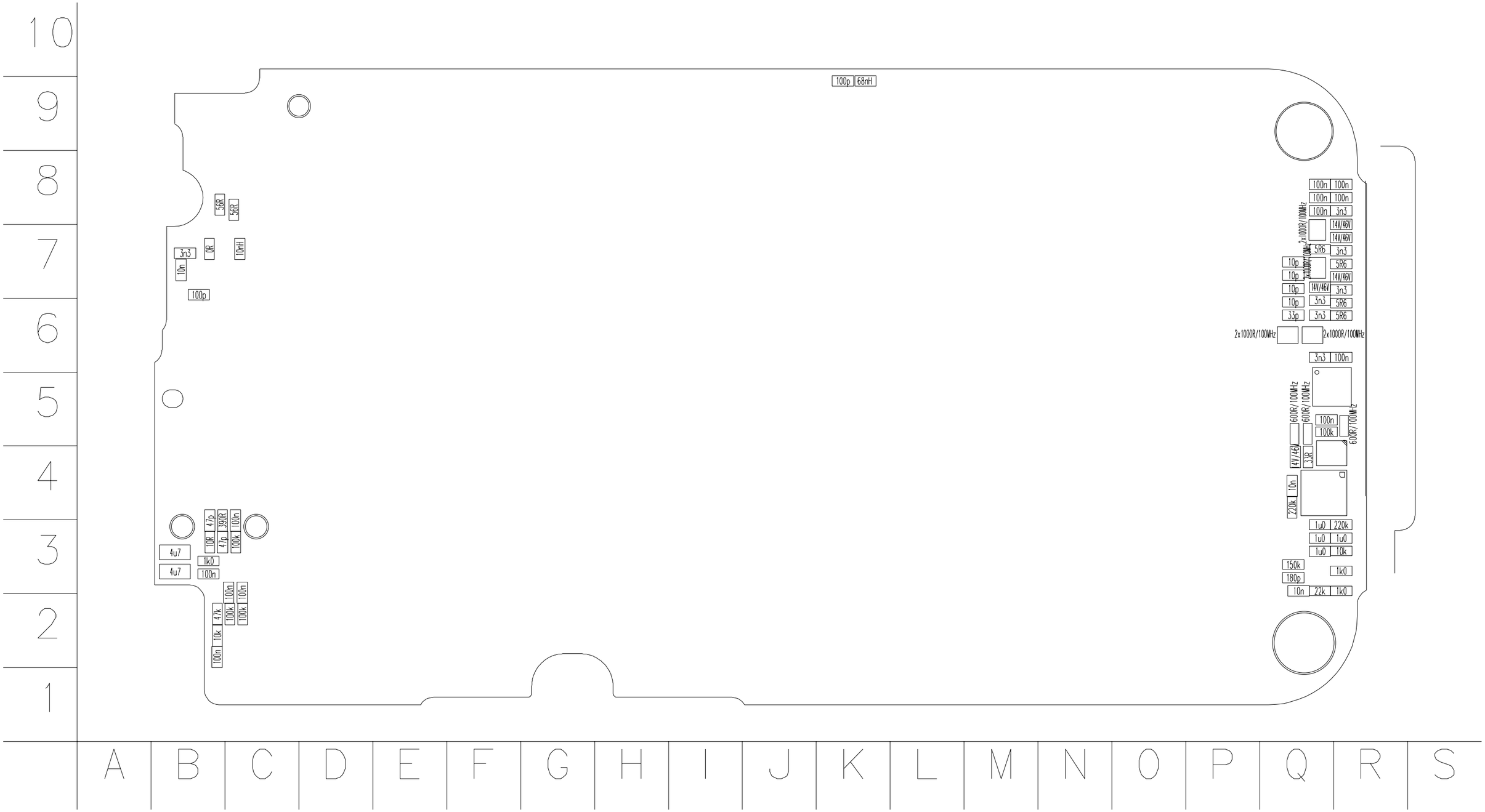
Component Values - Top



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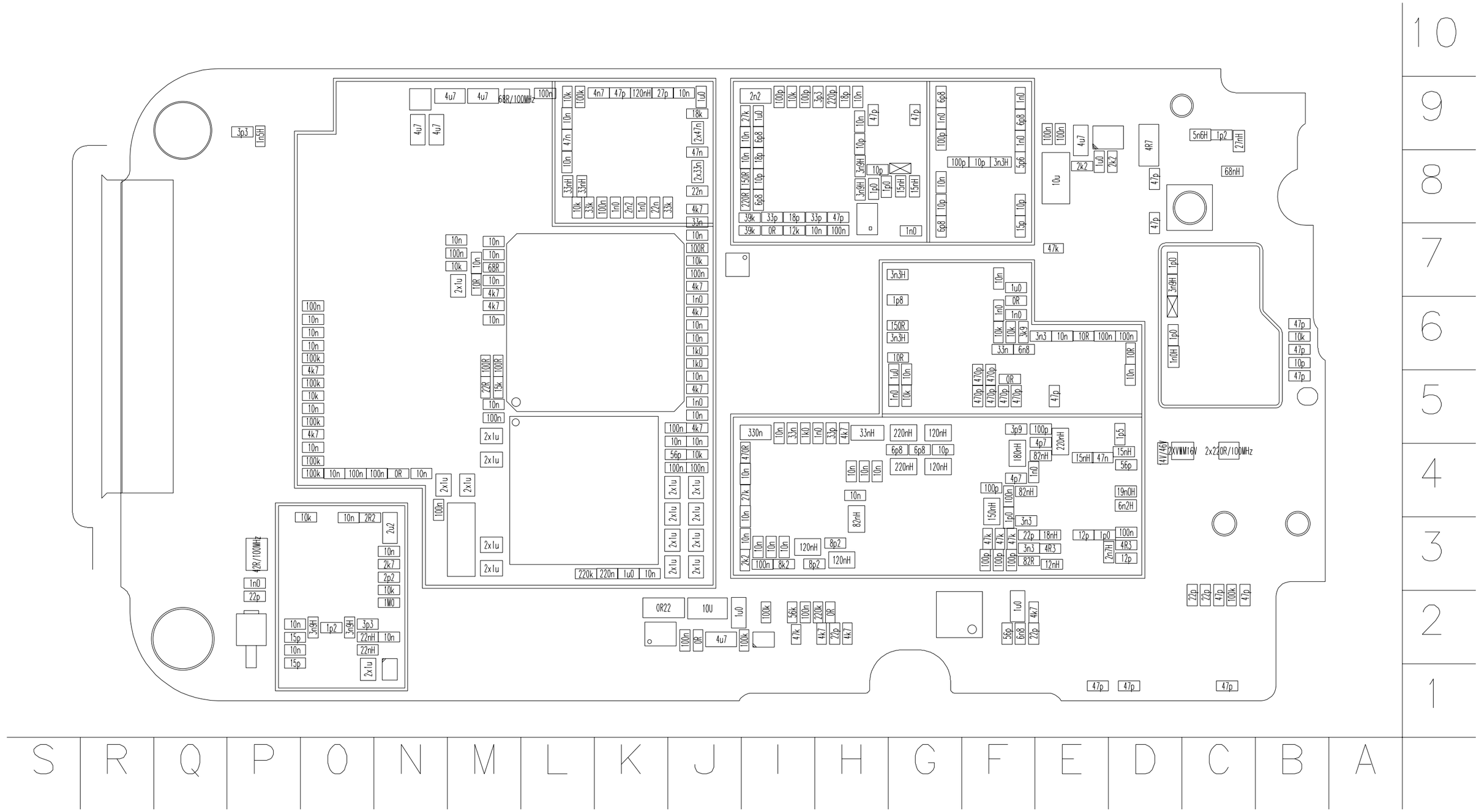
Component Values - Bottom



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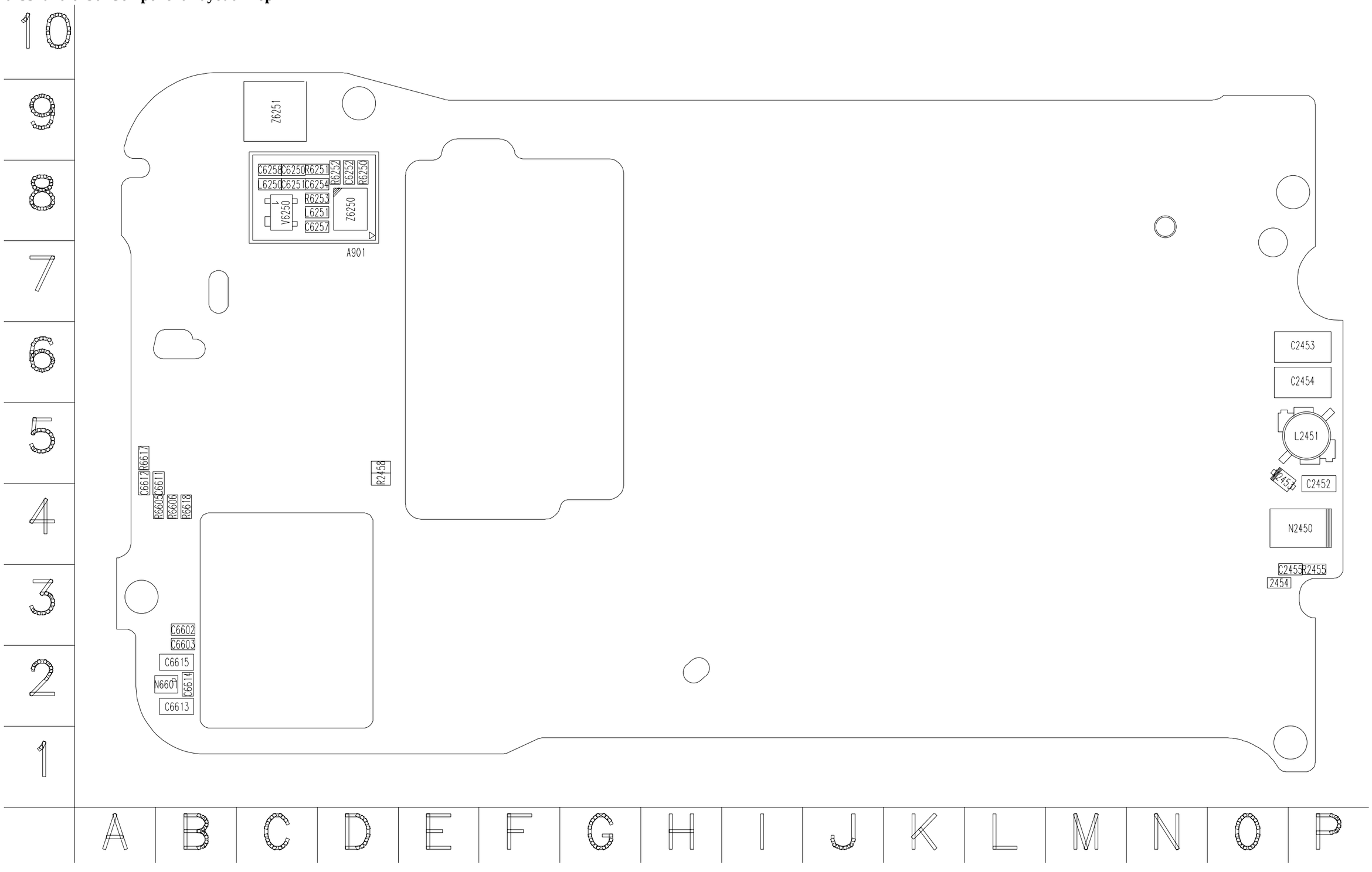
6255i and 6256i - Component Layouts and Values — Secondary (UI) PWB

6255i and 6256i Component Layout - Top



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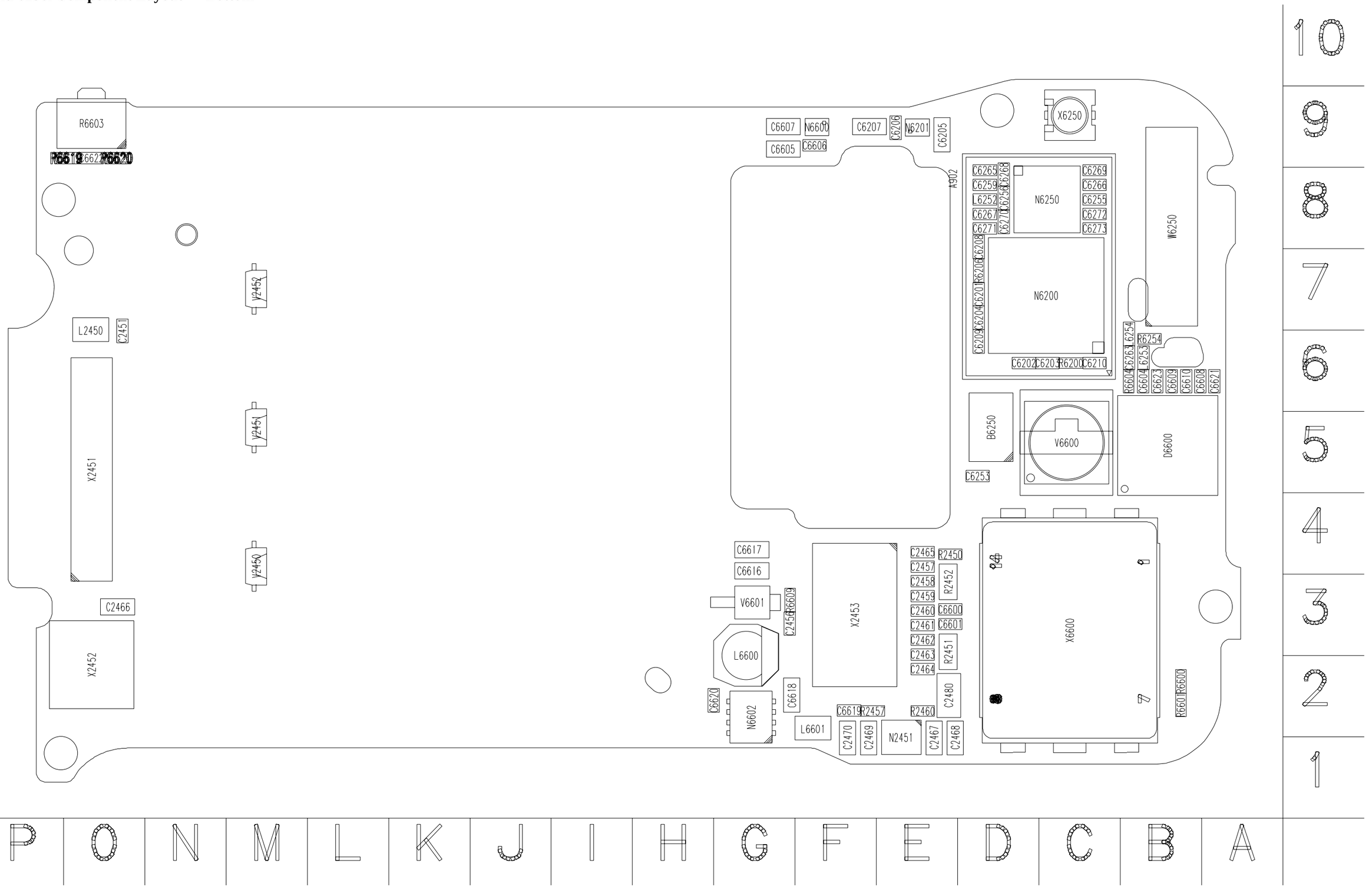
6255i and 6256i Component Layout — Bottom



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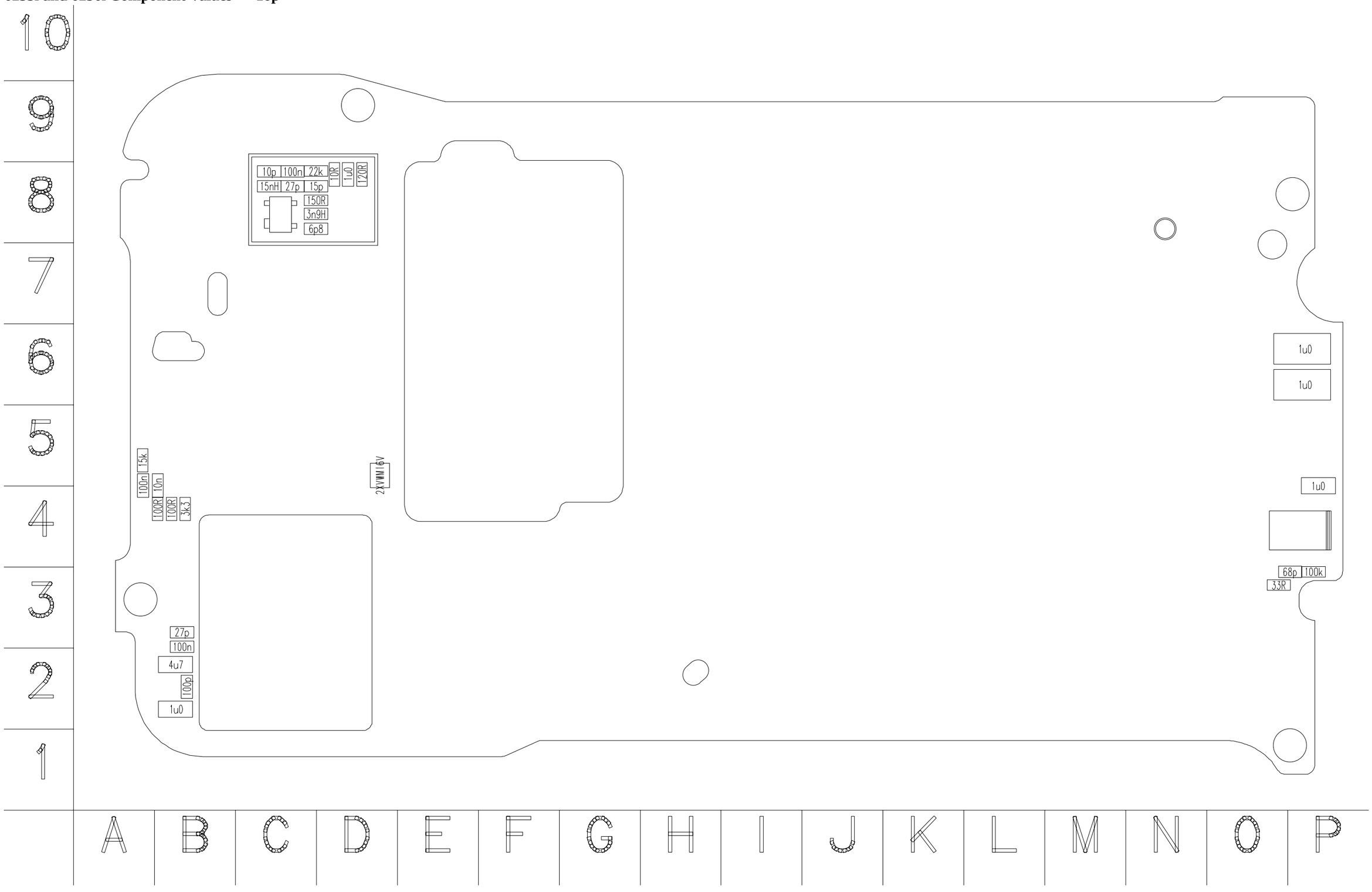
6255i and 6256i Component Values — Top



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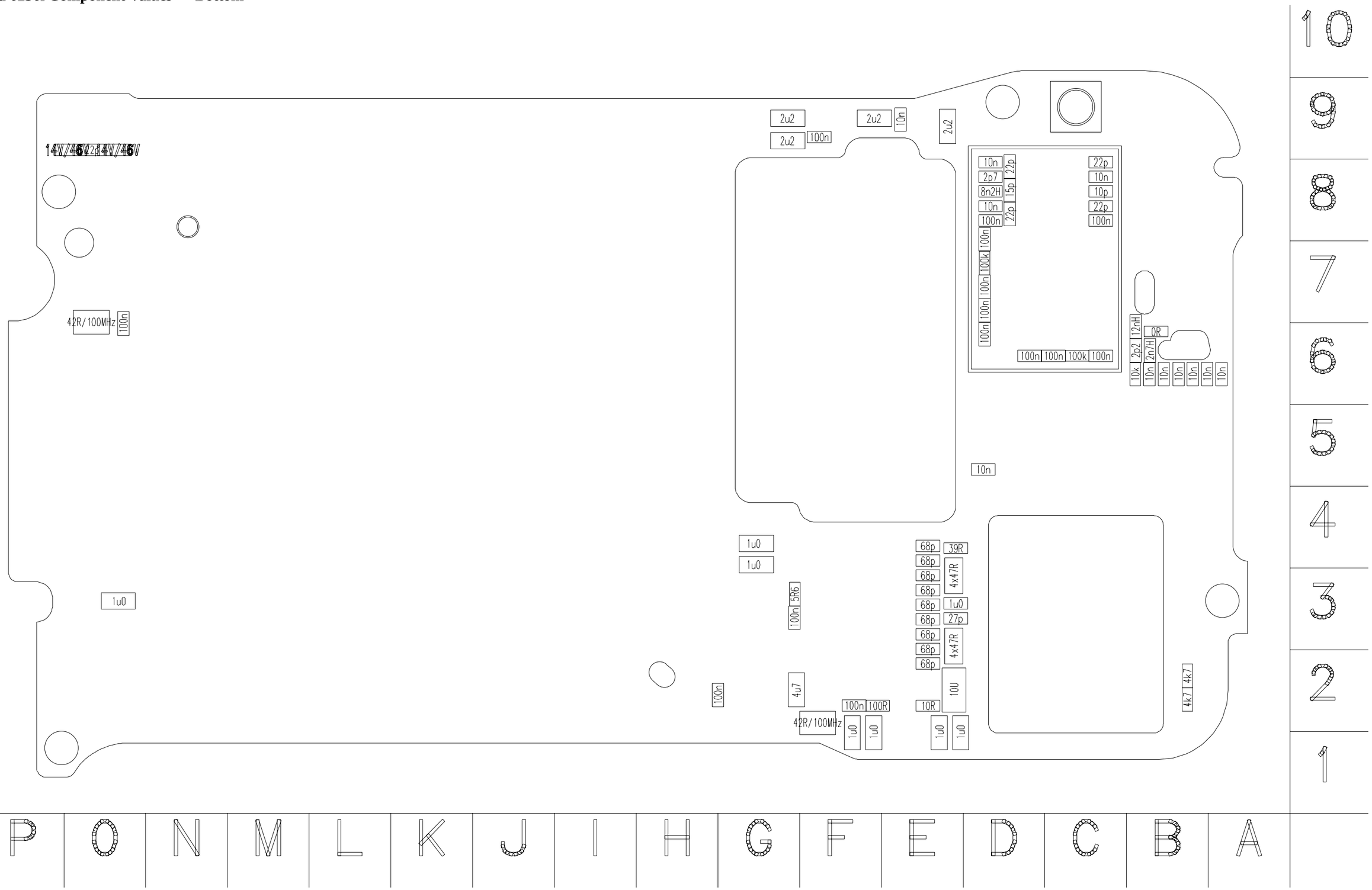
6255i and 6256i Component Values — Bottom



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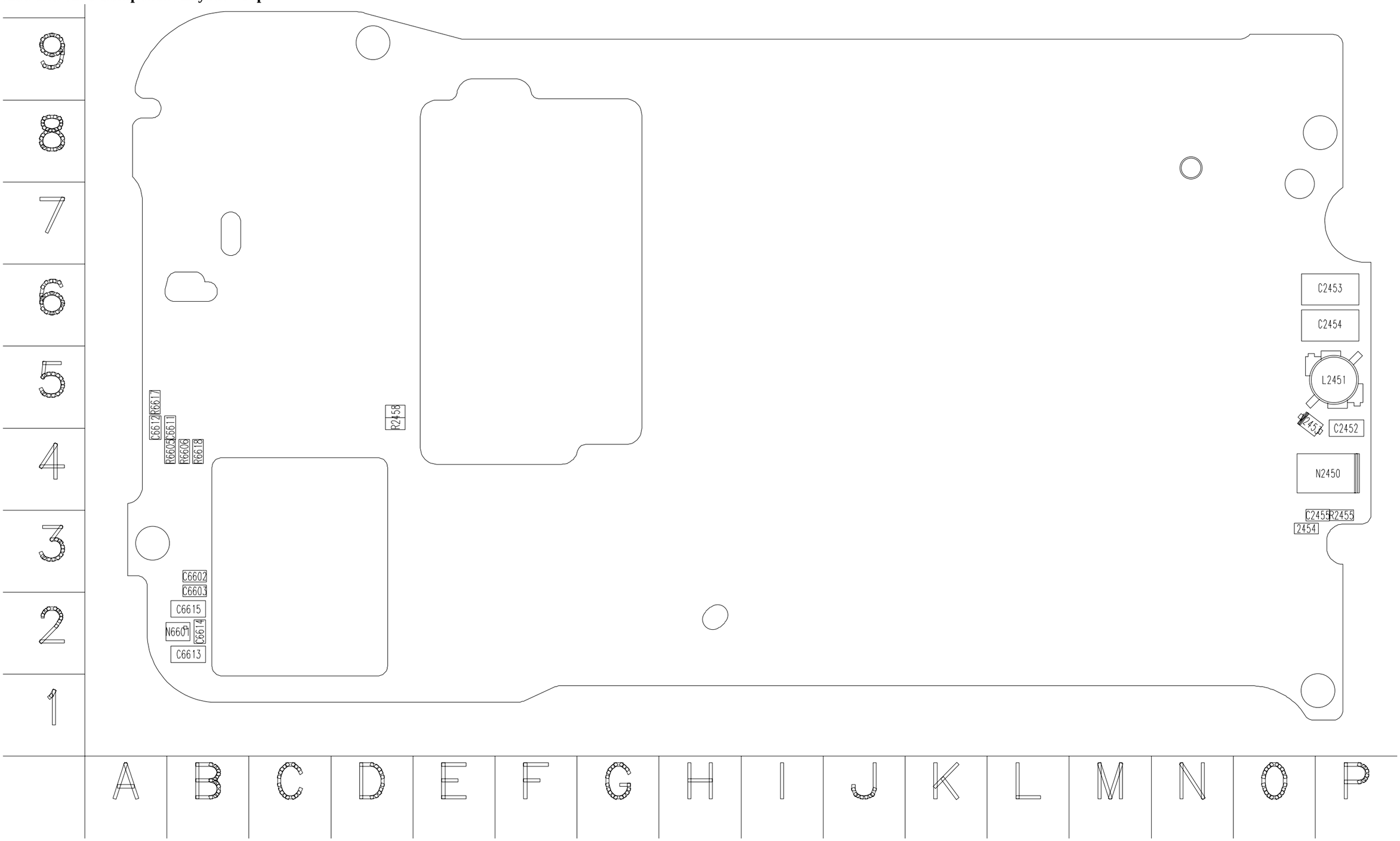
6255 and 6256 (Non-GPS) Component Layouts and Values — Secondary Display

6255 and 6256 Component Layout - Top



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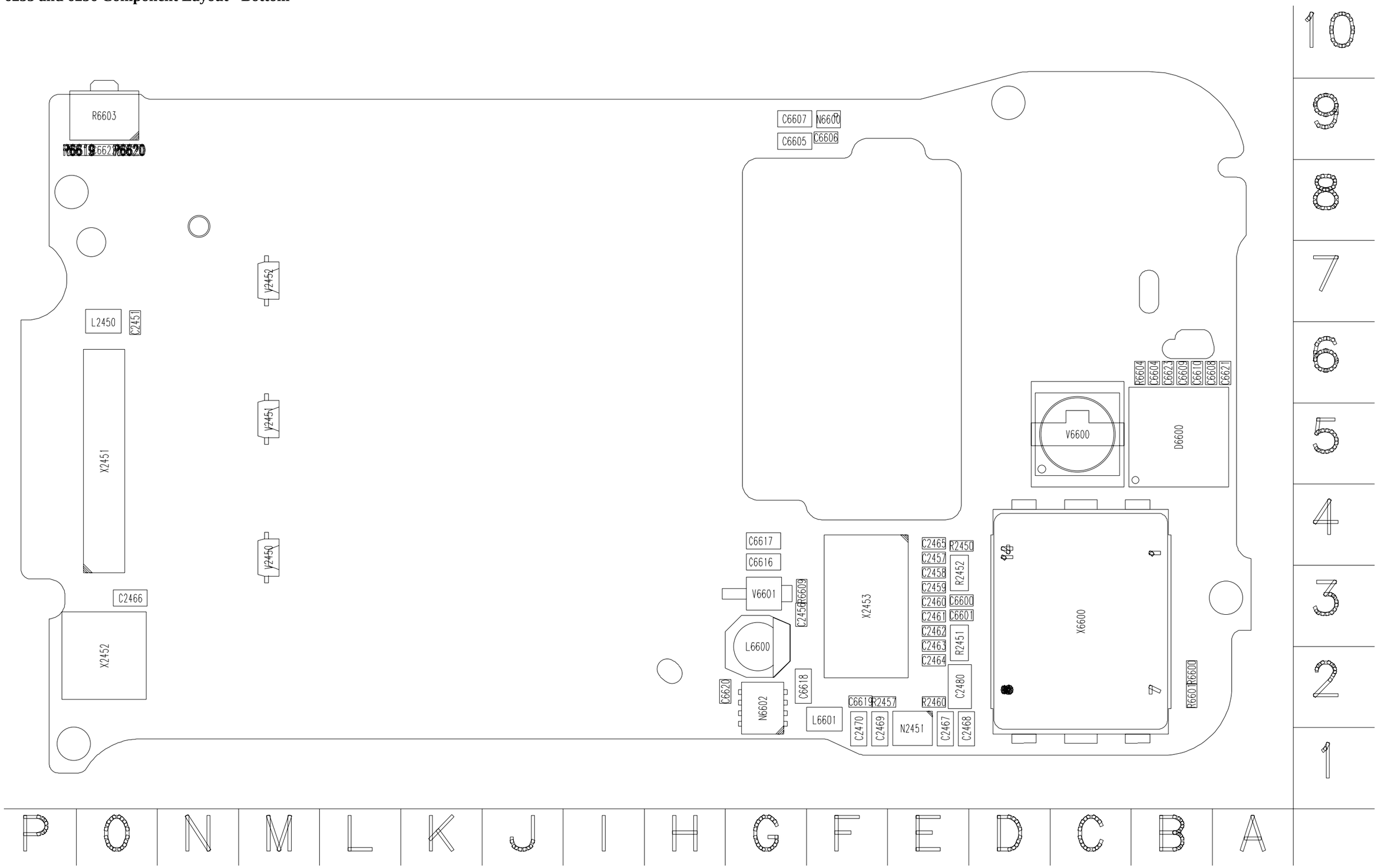
6255 and 6256 Component Layout - Bottom



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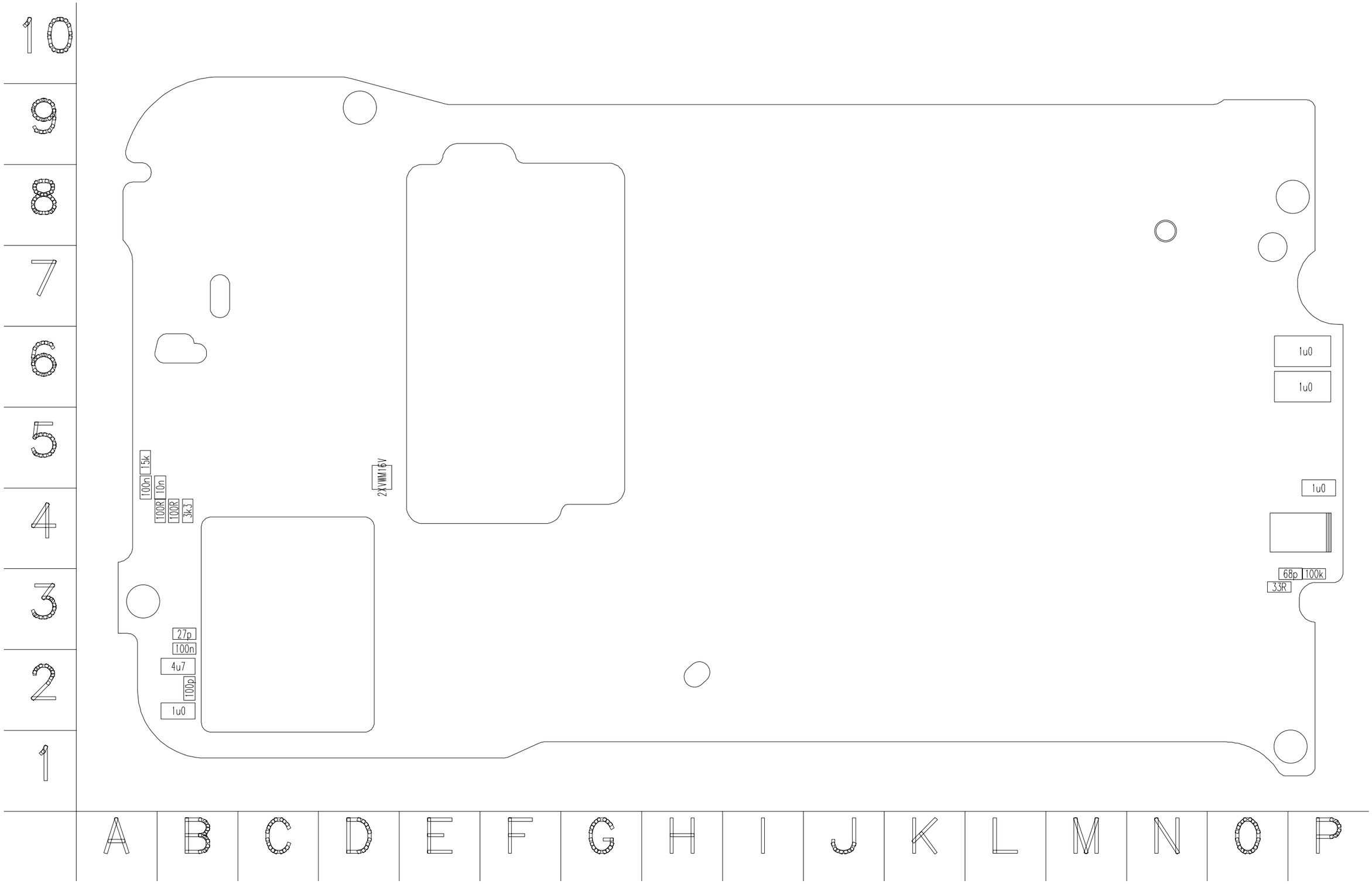
6255 and 6256 Component Values - Top



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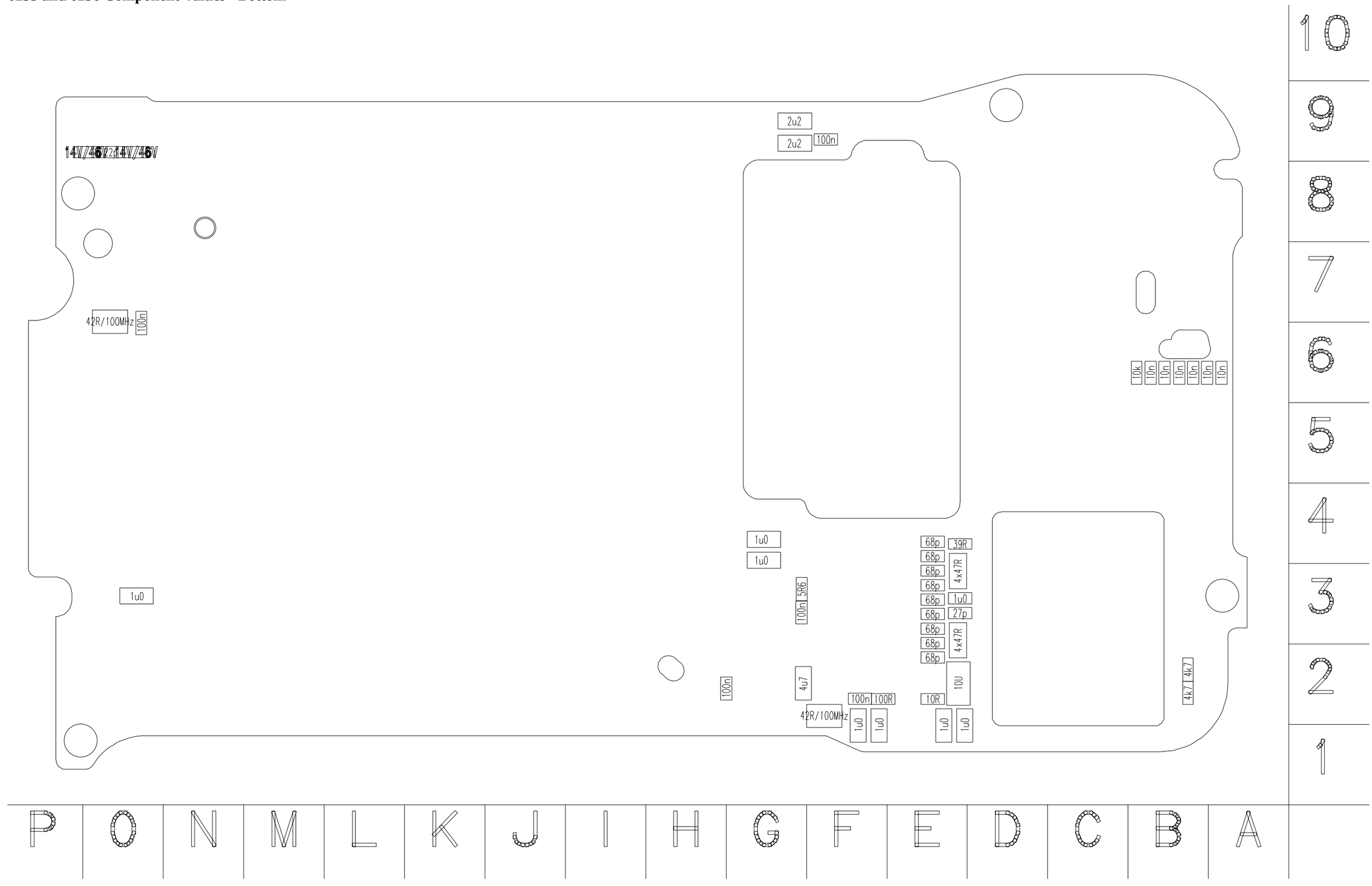
6255 and 6256 Component Values - Bottom



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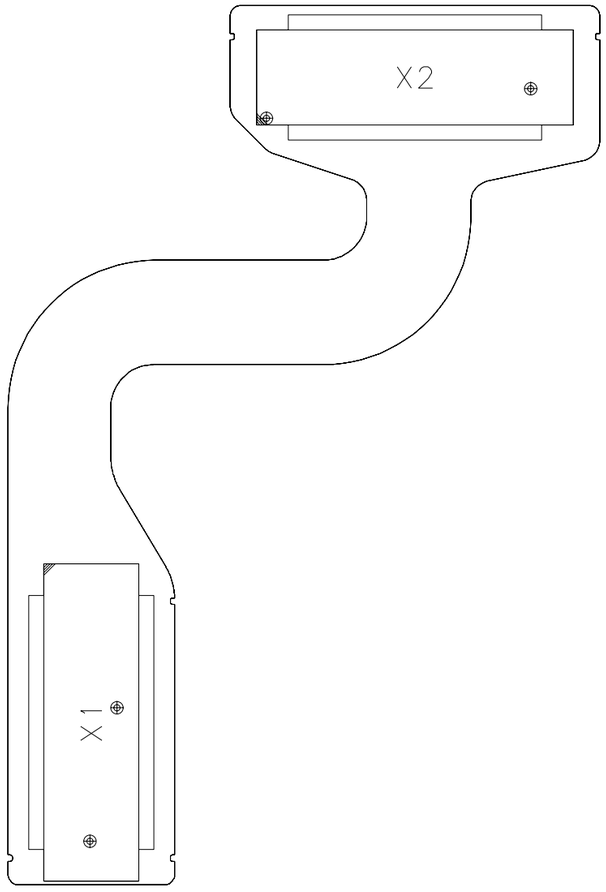
Flex Cable Component Layout - Top



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